

# SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

## REGULAR MEETING AGENDA JULY 26, 2018 8:30 A.M.

Location: City Council Chamber, 15651 East Stafford Street, City of Industry, California

## Addressing the Agency:

- Agenda Items: Members of the public may address the Successor Agency on any matter listed on the Agenda. In order to conduct a timely meeting, there will be a three-minute time limit per person for any matter listed on the Agenda. Anyone wishing to speak to the Successor Agency is asked to complete a Speaker's Card which can be found at the back of the room and at each podium. The completed card should be submitted to the Secretary prior to the Agenda item being called and prior to the individual being heard by the Successor Agency.
- Public Comments (Non-Agenda Items Only): Anyone wishing to address the Successor Agency on an item <u>not</u> on the Agenda may do so during the "Public Comments" period. In order to conduct a timely meeting, there will be a three-minute time limit per person for the Public Comments portion of the Agenda. State law prohibits the Successor Agency from taking action on a specific item unless it appears on the posted Agenda. Anyone wishing to speak to the Successor Agency is asked to complete a Speaker's Card which can be found at the back of the room and at each podium. The completed card should be submitted to the Secretary prior to the Agenda item being called by the Secretary and prior to the individual being heard by the Successor Agency.

## Americans with Disabilities Act:

In compliance with the ADA, if you need special assistance to participate in any meeting (including assisted listening devices), please contact the Office of the Secretary to the Successor Agency (626) 333-2211. Notification of at least 72 hours prior to the meeting will assist staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting.

## Agendas and other writings:

- In compliance with Government Code Section 54957.5(b), staff reports and other public records permissible for disclosure related to open session agenda items are available at City Hall, 15625 East Stafford Street, Suite 100, City of Industry, California, at the office of the Secretary of the Successor Agency during regular business hours, Monday through Thursday, 8:00 a.m. to 5:00 p.m., and Fridays 8:00 a.m. to 4:00 p.m..
- Call to Order
- Flag Salute
- Roll Call
- Public Comments

## 5. **BOARD MATTERS**

5.1 Consideration of the minutes of the September 8, 2016 special meeting, September 22, 2016 regular meeting, October 13, 2016 special meeting, October 27, 2016 regular meeting, and December 22, 2016 regular meeting

RECOMMENDED ACTION:

Approve as submitted.

5.2 Consideration of the Statement of Investment Policy

RECOMMENDED ACTION:

Approve as submitted.

5.3 Consideration of authorization to solicit public bids for Contract No. GGS-0387, for Grand Avenue and Golden Springs Drive Intersection Improvements, for an estimated cost of \$11,781,028.00

RECOMMENDED ACTION: Approve the plans and specifications and authorize the advertising of receipt of electronic bids.

5.4 Consideration of Amendment No. 4 to the Agreement for Consulting Services with Stearns, Conrad and Schmidt, Consulting Engineers, Inc., in the amount of \$80,000.00, for a total Agreement amount not-to-exceed \$952,550.00, through December 31, 2020

RECOMMENDED ACTION:

Approve Amendment No. 4.

6. Adjournment. Next regular Successor Agency meeting will be on Thursday, August 23, 2018 at 8:30 a.m.

# SUCCESSOR AGENCY ITEM NO. 5.1

HANDOUT ITEM

(To be Distributed Prior to Meeting)

SUCCESSOR AGENCY
ITEM NO. 5.2

## MEMORANDUM

To:

Chairman Radecki and Members of the Successor Agency to the

Industry Urban-Development Agency

From:

Troy Helling, Acting Executive Director

Staff:

Elise Calvo, Finance Officer

Date:

July 26, 2018

Subject:

Statement of Investment Policy

## **OVERVIEW**

Section 53646 (a)(2) of the California Government Code, states that the Treasurer or chief fiscal officer of any other local agency may annually render to his/her legislative body and any oversight committee an investment policy, that the legislative body shall consider at a public meeting.

This Agenda Item includes the Statement of Investment Policy for the Successor Agency to the Industry Urban-Development Agency dated July 26, 2018, for all future investments, pursuant to Section 53601 and Section 53635 of the California Government Code.

This investment Policy serves as the foundation of the Successor Agency to the Industry Urban-Development Agency's investment goals and priorities. This policy has will be reviewed regularly or at least annually to assure that it continues to meet the Agency's portfolio goals/priorities, with the intent to protect the assets of the Successor Agency to the Industry Urban-Development. The existence of an approved investment policy demonstrates that the governing body is performing its fiduciary responsibilities, thereby, inspiring trust and confidence among the public that it serves.

## RECOMMENDATION

It is my recommendation that the Successor Agency to the Industry Urban-Development Agency approve the Investment Policy.



# City of Industry

STATEMENT OF INVESTMENT POLICY ELISE CALVO, CITY OF TREASURER

## STATEMENT OF INVESTMENT POLICY

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#### STATEMENT OF INVESTMENT POLICY

Effective July 26, 2018

(Supersedes All Previous Investment Policies)

- **1.0 Introduction.** The purpose of this document is to identify various policies and procedures that enhance opportunities for a prudent and systematic investment policy and to organize and formalize investment-related activities. Related activities which comprise good cash management include accurate cash projections, the expeditious collection of revenue, the control of disbursements, cost-effective banking relations, and arranging for a short-term borrowing program which coordinates working capital requirements and investment opportunities.
- **2.0 Policy.** It is the policy of the City of Industry to invest public funds not required for immediate day-to-day operations in safe, liquid and medium term investments. These investments shall yield an acceptable return while conforming to all California statutes and the City's Investment Policy.
- **3.0 Scope.** It is intended that this policy cover the investment activities of all contingency reserves and inactive cash under the direct authority of the City.
- 3.1 Pooled Investments. Investments for the City and its component units will be made on a pooled basis including, but not limited to, the City of Industry, the Successor Agency to the Industry Urban-Development Agency, the Civic-Recreational-Industrial Authority, the Industry Public Utilities Commission, the Industry Public Facilities Authority and the Industry Property and Housing Management Authority. The City's identifies the fund types involved as follows:
  - General Fund
  - Special Revenue Funds
  - Debt Service Funds
  - Capital Project Funds
  - Enterprise Funds
  - Trust Funds
  - Miscellaneous Special Funds
  - Any new funds created by the applicable governing board, unless specifically exempted
- **3.2** Investments held separately. Investment of bond proceeds will be held separately when required by the bond indentures. Bond proceeds will be invested in accordance with the requirements stated in the bond indentures. This policy does not apply to deferred compensation plans.

## STATEMENT OF INVESTMENT POLICY

- **4.0 Objectives.** Section 53600.5 of the California Government Code outlines the primary objectives of a trustee investing public money. The primary objectives, in order of priority, of the City's investment activities shall be:
- **4.1. Safety.** Safety of principal is the foremost objective of the investment program. Investments of the City shall be undertaken in a manner that seeks to ensure preservation of capital in the overall portfolio.
- **4.2 Liquidity.** The City's investment portfolio will remain sufficiently liquid to enable the City to meet all operating requirements which might be reasonably anticipated.
- **4.3 Return on investment.** Investment return becomes a consideration only after the basic requirements of safety and liquidity have been met. The City Treasurer shall attempt to realize a yield on investments consistent with California statutes and the City's Investment Policy.

The City Treasurer should strive to maintain the level of investment of all contingency reserves and inactive funds as close to one hundred percent (100%) as possible. While the objectives of safety and liquidity must first be met, it is recognized that portfolio assets represent a potential source of significant revenues. It is to the benefit of the City that these assets be managed to realize a yield on investments consistent with California statutes and the City's Investment Policy.

A buy and hold strategy will generally be followed; that is, investments once made will usually be held until maturity. A buy and hold strategy will result in unrealized gains or losses as market interest rates fall or rise from the coupon rate of the investment. Unrealized gains or losses, however, will diminish as the maturity dates of the investments are approached or as market interest rates move closer to the coupon rate of the investment. A buy and hold strategy requires that the portfolio be kept sufficiently liquid to preclude the undesired sale of investments prior to maturity. Occasionally, the City Treasurer may find it advantageous to sell an investment prior to maturity, but this should only be on an exception basis and only when it is in the best interest of the City.

## STATEMENT OF INVESTMENT POLICY

**5.0** Authorized investments. The City Treasurer may invest City funds in the following investments as specified in the California Government Code Section 53601 and is further limited to only these specified investments.

	Investment	Maximum Maturity	Maximum Specified % of	Minimum Quality
	Туре	Waturity		Requirements
a.	Securities of the US Government, or its agencies	5 years	None	None
b.	Negotiable certificates of deposits	5 years	30%	None
C.	Non-negotiable certificates of deposits	5 years	None	None
d.	Bankers Acceptances	180 days	40% and no more than 30% of any one commerical bank	
	Commercial Depar	270 days	25% and no more than 10% of a single issuer	A-1 or higher rating from an NRSRO
е.	Commercial Paper Local Agency Investment Fund (State pool)		155461	MINGINO
f.	deposits (Govt. Code Section 16429.1)	N/A	None	None
g.	Passbook Savings account demand deposits			
h.	Repurchase Agreements	1 year	None	None
i.	Los Angeles County Investment Pool (California Govt. Code Section 53684)	N/A	None	None
j.	It is the City of Industry's policy not to utilize Reverse Repurchase Agreements or shares of beneficial interest issued by diversified management companies (mutual funds), unless that fund is composed entirely of securities of the U.S. Government, or its agencies, and the use of such funds shall be restricted to sweep accounts. (Reverse Repurchase Agreements shall be permitted if they are assets of the Local Agency Investment Fund).			

## STATEMENT OF INVESTMENT POLICY

- **6.0 Reporting.** Sections 53607 and 53646 of the California Government Code allows the City Council, at its discretion, to require reports meeting the standards set forth in these sections, as well as any additional information desired. Therefore, it is the policy of the City that the City Treasurer or designee appointed by the City Treasurer file a report on the investments and transactions with the City Council as described in Sections 53607 and 53646 of the California Government Code.
- 7.0 Selection of financial institutions and brokers/dealers. Investments shall be purchased only through well established, financially sound institutions. The City Treasurer or City Manager or their designee may maintain a list of financial institutions and broker/dealers who are approved to provide the City with investment services. This list should be updated annually by the City Treasurer to ensure compliance with this investment policy. All financial institutions and broker/dealers who desire to become qualified bidders for investment transactions will be given a copy of the City's Investment Policy, and a return cover letter which they must sign indicating that the investment policy has been read, understood and that their investment offers will comply with this policy.

All financial institutions and broker/dealers will take direction from the City Treasurer or City Manager or their designee as it relates to the investment strategy and investment policy of the City. Any instructions will be in the form of written instructions via email or other electronic transmissions.

Qualified financial institutions and broker/dealers must supply the City Treasurer or City Manager or their designee with the following:

## 7.1 Financial Institutions

- Current audited financial statements
- Depository contracts, as appropriate
- A copy of the latest FDIC call report or the latest FHLBB report, as appropriate
- Proof that commercial banks, savings banks, or savings and loan associations are state or federally chartered

## 7.2 Broker/Dealers

- Current audited financial statements
- Proof that brokerage firms are members in good standing of a national securities exchange, or
- A designation as a primary government dealer by the Federal Reserve Bank.

Commercial banks, savings banks, and savings and loan associations must maintain a minimum net worth to asset ratio as provided by law (total regulatory net worth divided by total assets), and must have had a positive net earnings for the last reporting period

## STATEMENT OF INVESTMENT POLICY

The City is prohibited from selecting any broker/dealer that has made a campaign contribution within any consecutive 48-month period which exceeds the limitations contained Rule G-37 of the Municipal Securities Rulemaking Board.

**8.0** Ethics and conflicts of interest. All participants in the City's investment process shall seek to act responsibly as custodians of the public trust. Officers and employees involved in the investment process shall refrain from personal business activity that could conflict with proper execution of the investment program, or which could impair their ability to make impartial investment recommendations and decisions. Investment officials and employees shall make all disclosures appropriate under the Fair Political Practices Act and may seek the advice of the City Attorney and the Fair Political Practices Commission whenever there is a question of personal financial or investment positions that could represent potential conflicts of interest.

SUCCESSOR AGENCY
ITEM NO. 5.3

## MEMORANDUM

TO:

Honorable Chairman and Members of the Successor Agency to the

Industry Urban-Development Agency Board

FROM:

Troy Helling, Acting Executive Director 1#

STAFF:

Joshua Nelson, Contract Agency Engineer, CNC Engineering Sean Calvillo, Project Manager, CNC Engineering

DATE:

July 26, 2018

SUBJECT:

Consideration of authorization to solicit public bids for Contract No. GGS-

0387, for Grand Avenue and Golden Springs Drive Intersection

Improvements, for an estimated cost of \$11,781,028.00

## Background:

At the direction of the Successor Agency to the Industry Urban-Development Agency ("Agency") Staff, WKE Inc. has prepared plans and specifications for the above project. This project will be implemented as Contract No. GGS-0387, subject to the approval by the Agency Board.

This project is identified as line item No. 128 as listed on the Recognized Obligation Payment Schedule ("ROPS"). This line is described as Route 57/60 Confluence with a total outstanding obligation of \$9,480,364 in bond proceeds for ROPS 18-19.

The City has been awarded up to \$6,727,566 in local Proposition C grant funds from the Los Angeles County Metropolitan Transportation Authority's ("Metro") 2011 Call for Projects Program, which provides 40% of eligible project costs for right-of-way acquisition, construction, and construction support services. Industry entered into a Memorandum of Understanding on April 23, 2015, with the Agency to provide payment for all project related costs, with full reimbursement provided by the Agency and Metro's grant funding.

## Discussion:

The Project provides for certain improvements, including an additional northbound through lane, an additional southbound approach lane, a westbound right-turn lane, increased traffic lane widths along Grand Avenue, sidewalk widening, new decorative traffic signals, new street lights on the north side of Golden Springs Drive and the replacement of the golf cart tunnel underneath Grand Avenue. In addition, the project includes the installation of landscaping based upon plans prepared by the City of Diamond Bar to match the existing landscaping treatment at nearby intersections. The City of Industry and Diamond Bar are presently working on a betterment agreement in which Diamond Bar will fund this landscape treatment.

## Fiscal Impact:

The engineer's estimate for this project is \$11,781,028.00. This project is listed on the Recognized Obligation Payment Schedule (ROPS), Line Item No. 128.

## Recommendation:

It is hereby recommended that the Successor Agency Board approve the plans and specifications and authorize the solicitation of public bids.

## **Exhibits**:

- A. Notice Inviting Bids
- B. Engineer's Estimate
- C. Section A Pages A-1 through A-8
- D. Reduced Set of Project Plans

TH/JN/SC:jv

## EXHIBIT A

Notice Inviting Bids

[Attached]

## NOTICE INVITING BIDS FOR:

## SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY PROJECT NO. 387

## GRAND AVENUE AND GOLDEN SPRINGS DRIVE INTERSECTION IMPROVEMENTS

CONTRACT NO. GGS-0387

The SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY, hereinafter referred to as the AGENCY, will receive bids for the construction of the above project until 11:00 A.M. on September 27, 2018, via the City of Industry's PlanetBids™ vendor portal. Bids are to be submitted through <a href="http://www.cityofindustry.org/?p=proposal-and-bid">http://www.cityofindustry.org/?p=proposal-and-bid</a>.

Postmarks, mailed, emailed, or hard copy bids will not be accepted. Late bids will not be accepted.

It is the responsibility of the bidder to be sure the bid is submitted prior to the date and time indicated above. Digital versions of the plans and specifications are available on the vendor portal. Hard copies will no longer be available for purchase at CNC Engineering.

At the time of submission of the bid and thereafter, each bidder must be licensed as a **Class A - General Engineerng** as defined in Sections 7055-7058 of the Business and Professions Code. Each bidder shall set forth on the Bidder's Information Sheet and the Contractor's License Affidavit the classification and number of the requisite license which that bidder holds.

The **AGENCY** reserves the right to award the contract to the contractor with another license class if the **AGENCY** determines that the license class is proper for the proposed work.

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. *Please note:* It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. Any bids submitted without proof that bidder and any listed subcontractor(s) are currently registered and qualified to perform public work, pursuant to Labor Code Section 1725.5, may not be accepted by the Agency.

(Continued)

The Scope of Work is as follows: The Project provides for certain improvements, including an additional northbound through lane, an additional southbound approach lane, a westbound right-turn lane, increased traffic lane widths along Grand Avenue, sidewalk widening, new decorative traffic signals, new street lights on the north side of Golden Springs Drive and the replacement of the golf cart tunnel underneath Grand Avenue. In addition, the project includes the installation of landscaping based upon plans prepared by the City of Diamond Bar to match the existing landscaping treatment at nearby intersections.

Plans and Specifications are available for inspection at the City Administrative Office located at 15625 E. Stafford Street, Suite 100, City of Industry, California 91744.

Two pre-bid meetings will be conducted by the Engineer at the job site on **Monday, September 10, 2018 at 10:00 A.M.**, and **Wednesday**, **September 12, 2018 at 10:00 A.M.** Attendees will meet at 707 Grand Ave, Diamond Bar, CA 91765 (parking lot). All bidders are required to attend; it is mandatory to attend one of the pre-bid meetings.

Online Questions and Answers will be due via the City of Industry's PlanetBids<sup>™</sup> vendor portal on **Thursday**, **September 20**, **2018 at 5:00 P.M**.

## SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY PROJECT NO. 387

## GRAND AVENUE AND GOLDEN SPRINGS DRIVE INTERSECTION IMPROVEMENTS

CONTRACT NO. GGS-0387

Each bid shall be accompanied by a bid guarantee in the form of a Cashier's Check or Bidder's Bond for not less than ten percent (10%) of the total amount of the bid, made payable to the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY.

The contractor may, at his own expense, substitute securities for monies to be withheld to ensure performance under the contract.

By the order of the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY dated July 26, 2018

Mark D. Radecki,	Chairman	

## EXHIBIT B

Engineer's Estimate

[Attached]

## **ESTIMATE FOR:**

## SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

PROJECT NO. 387

# GRAND AVENUE AND GOLDEN SPRINGS DRIVE INTERSECTION IMPROVEMENTS

CONTRACT NO. GGS-0387

ENGINEER'S ESTIMATE \$11,781,028.00

## **EXHIBIT C**

Section A – Pages A-1 through A-8

[Attached]

## **SECTION A**

## SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY PROJECT NO. 387

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Postmarks, mailed, emailed, or hard copy bids will not be accepted. Late bids will not be accepted.

It is the responsibility of the bidder to be sure the bid is submitted prior to the date and time indicated above. Digital versions of the plans and specifications are available on the vendor portal. Hard copies will no longer be available for purchase at CNC Engineering.

At the time of submission of the bid and thereafter, each bidder must be licensed as a **Class A** - **General Engineerng** as defined in Sections 7055-7058 of the Business and Professions Code. Each bidder shall set forth on the Bidder's Information Sheet and the Contractor's License Affidavit the classification and number of the requisite license which that bidder holds.

The **AGENCY** reserves the right to award the contract to the contractor with another license class if the **AGENCY** determines that the license class is proper for the proposed work.

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. *Please note:* It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. Any bids submitted without proof that bidder and any listed subcontractor(s) are currently registered and qualified to perform public work, pursuant to Labor Code Section 1725.5, may not be accepted by the Agency.

The Scope of Work is as follows: The Project provides for certain improvements, including an additional northbound through lane, an additional southbound approach lane, a westbound right-turn lane, increased traffic lane widths along Grand Avenue, sidewalk widening, new decorative traffic signals, new street lights on the north side of Golden Springs Drive and the replacement of the golf cart tunnel underneath Grand Avenue. In addition, the project includes the installation of landscaping based upon plans prepared by the City of Diamond Bar to match the existing landscaping treatment at nearby intersections.

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Online Questions and Answers will be due via the City of Industry's PlanetBids™ vendor portal on **Thursday**, **September 20**, **2018 at 5:00 P.M.** 

The bid shall be accompanied by a bid guarantee in the form of a Cashier's Check or Bidder's Bond for not less than ten percent (10%) of the total amount of the bid, payable to the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY. The bid guarantee is to insure that the bidder, if awarded the work, will enter into a contract with the AGENCY. Failure of a contractor to enter into a contract within ten (10) days following award will cause the bid guarantee to be forfeited. If the bid guarantee is a Cashier's Check it must be delivered to City Hall prior to the bid opening date and time. The Cashier's Check shall be sealed in an envelope, endorsed as follows: GGS-0387 - GRAND AVENUE AND GOLDEN SPRINGS DRIVE INTERSECTION IMPROVEMENTS, City Administrative Offices, 15625 E. Stafford Street, Suite 100, City of Industry, California 91744. If a bid bond is chosen, a scanned PDF will be accepted through PlanetBids<sup>TM</sup>, however, the three apparent low bidders will be contacted to submit the original bid bond to the Agency and will be given a deadline to submit.

The AGENCY may, upon refusal or failure of a successful responsible bidder to accept the contract, award it to the next lowest bidder. If the AGENCY awards the contract to the second lowest bidder, the amount of the lowest bidder's bid guarantee shall be applied by the AGENCY to the difference between the low bid and the second lowest bid; the surplus, if any, shall be returned to the lowest bidder if cash is used, or to the surety company if a bond is used.

The successful bidder will be required to furnish a labor and materials bond in an amount equal to one hundred percent (100%) of the contract price and a faithful performance bond in an amount equal to one hundred percent (100%) of the contract price. A maintenance bond equal to ten percent (10%) of the total bid price amount is to remain in force for one (1) year after the date of completion of work, shall be submitted prior to execution of contract. The above bonds shall be secured by a surety company satisfactory to the AGENCY, and licensed as a Surety Insurer in the State of California and rated at least B+:V in the latest "Best's Insurance Guide." The attached bond forms shall be used without exception.

## CONTRACTOR

## **INSURANCE**

Prior to the beginning of and throughout the duration of the Project, Contractor and its subcontractors shall maintain insurance in conformance with the requirements set forth below. Contractor will use existing coverage to comply with these requirements. If that existing coverage does not meet the requirements set forth herein, Contractor agrees to amend, supplement or endorse the existing coverage to do so.

Contractor acknowledges that the insurance coverage and policy limits set forth in this section constitute the minimum amount of coverage required. Any insurance proceeds available to Contractor or its subcontractors in excess of the limits and coverage identified in this Agreement and which is applicable to a given loss, claim or demand, will be equally available to the Agency.

Contractor shall provide the following types and amounts of insurance:

Without limiting Contractor's indemnification of Agency, and prior to commencement of the Project, Contractor shall obtain, provide and maintain at its own expense during the term of this Agreement, policies of insurance of the type and amounts described below and in a form satisfactory to the Agency.

<u>General Liability Insurance</u>. Contractor shall maintain commercial general liability insurance with coverage at least as broad as Insurance Services Office form CG 00 01, in an amount not less than \$5,000,000 per occurrence, \$10,000,000 general aggregate, for bodily injury, personal injury, and property damage, and a \$5,000,000 completed operations aggregate. The policy must include contractual liability that has not been amended. Any endorsement restricting standard ISO "insured contract" language will not be accepted.

<u>Automobile Liability Insurance</u>. Contractor shall maintain automobile insurance at least as broad as Insurance Services Office form CA 00 01 covering bodily injury and property damage for all activities of the Contractor arising out of or in connection with work to be performed under this Agreement, including coverage for any owned, hired, non-owned or rented vehicles, in an amount not less than \$1,000,000 combined single limit for each accident.

<u>Umbrella or Excess Liability Insurance</u>. Contractor shall obtain and maintain an umbrella or excess liability insurance that will provide bodily injury, personal injury and property damage liability coverage at least as broad as the primary coverages set forth above, including commercial general liability and employer's liability. Such policy or policies shall include the following terms and conditions:

- A drop down feature requiring the policy to respond in the event that any primary insurance that would otherwise have applied proves to be uncollectable in whole or in part for any reason;
- Pay on behalf of wording as opposed to reimbursement;
- Concurrency of effective dates with primary policies;
- Policies shall "follow form" to the underlying primary policies; and
- Insureds under primary policies shall also be insureds under the umbrella or excess policies.

<u>Workers' Compensation Insurance</u>. Contractor shall maintain Workers' Compensation Insurance (Statutory Limits) and Employer's Liability Insurance (with limits of at least \$1,000,000) for Contractor 's employees in accordance with the laws of the State of California, Section 3700 of the Labor Code In addition, Contractor shall require each subcontractor to similarly maintain

Workers' Compensation Insurance and Employer's Liability Insurance in accordance with the laws of the State of California, Section 3700 for all of the subcontractor's employees.

Contractor shall submit to the Agency, along with the certificate of insurance, a Waiver of Subrogation endorsement in favor of the Agency, its officers, agents, employees and volunteers.

Pollution Liability Insurance. Environmental Impairment Liability Insurance shall be written on a Contractor's Pollution Liability form or other form acceptable to the Agency providing coverage for liability arising out of sudden, accidental and gradual pollution and remediation. The policy limit shall be no less than \$1,000,000 dollars per claim and in the aggregate. All activities contemplated in this agreement shall be specifically scheduled on the policy as "covered operations." The policy shall provide coverage for the hauling of waste from the project site to the final disposal location, including non-owned disposal sites.

Completed Operations Coverage. Products/completed operations coverage shall extend a minimum of ten years after project completion. Coverage shall be included on behalf of the insured for covered claims arising out of the actions of independent contractors. If the insured is using subcontractors, the Policy must include work performed "by or on behalf" of the insured. Policy shall contain no language that would invalidate or remove the insurer's duty to defend or indemnify for claims or suits expressly excluded from coverage. Policy shall specifically provide for a duty to defend on the part of the insurer. The Agency, its officials, officers, agents, and employees, shall be included as insureds under the policy.

<u>Builder's Risk Insurance</u>. Upon commencement of construction and with approval of Agency, Contractor shall obtain and maintain builder's risk insurance for the entire duration of the Project until only the Agency has an insurable interest. The Builder's Risk coverage shall include the coverages as specified below.

The named insureds shall be Contractor and Agency, including its officers, officials, employees, and agents. All Subcontractors (excluding those solely responsible for design work) of any tier and suppliers shall be included as additional insureds as their interests may appear. Contractor shall not be required to maintain property insurance for any portion of the Project following transfer of control thereof to the Agency. The policy shall contain a provision that all proceeds from the builder's risk policy shall be made payable to the Agency. The Agency will act as a fiduciary for all other interests in the Project.

A Policy shall be provided for replacement value on an "all risk" basis for the completed value of the project. There shall be no coinsurance penalty or provisional limit provision in any such policy. The Policy must include: (1) coverage for any ensuing loss from faulty workmanship, nonconforming work, omission or deficiency in design or specifications; (2) coverage against machinery accidents and operational testing; (3) coverage for removal of debris, and insuring the buildings, structures, machinery, equipment, materials, facilities, fixtures and all other properties constituting a part of the Project; (4) ordinance or law coverage for contingent rebuilding, demolition, and increased costs of construction; (5) transit coverage (unless insured by the supplier or receiving contractor), with sub-limits sufficient to insure the full replacement value of any key equipment item; (6) ocean marine cargo coverage insuring any Project materials or supplies, if applicable; (7) coverage with sub-limits sufficient to insure the full replacement value of any property or equipment stored either on or off the Project site or any staging area. Such

insurance shall be on a form acceptable to the Agency to ensure adequacy of terms and sublimits and shall be submitted to the Agency prior to commencement of construction.

Other provisions or requirements:

<u>Proof of Insurance</u>. Contractor shall provide certificates of insurance to the Agency as evidence of the insurance coverage required herein, along with a waiver of subrogation endorsement for workers' compensation. Insurance certificates and endorsements must be approved by the Agency's risk manager prior to commencement of performance. Current certification of insurance shall be kept on file with the Agency at all times during the term of this contract. The Agency reserves the right to require complete, certified copies of all required insurance policies, at any time.

<u>Duration of Coverage</u>. Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by Contractor, his agents, representatives, employees or subcontractors. Contractor must maintain general liability and umbrella or excess liability insurance for as long as there is a statutory exposure to completed operations claims. The Agency and its officers, officials, employees, and agents shall continue as additional insureds under such policies.

<u>Primary/Noncontributing</u>. Coverage provided by Contractor shall be primary and any insurance or self-insurance procured or maintained by the Agency shall not be required to contribute with it. The limits of insurance required herein may be satisfied by a combination of primary and umbrella or excess insurance. Any umbrella or excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis for the benefit of the Agency before the Agency's own insurance or self-insurance shall be called upon to protect it as a named insured.

Agency's Rights of Enforcement. In the event any policy of insurance required under this Agreement does not comply with these requirements or is canceled and not replaced, the Agency has the right but not the duty to obtain the insurance it deems necessary and any premium paid by the Agency will be promptly reimbursed by Contractor or the Agency will withhold amounts sufficient to pay premium from Contractor payments. In the alternative, the Agency may cancel this Agreement.

<u>Acceptable Insurers</u>. All insurance policies shall be issued by an insurance company currently authorized by the Insurance Commissioner to transact business of insurance or is on the List of Approved Surplus Line Insurers in the State of California, with an assigned policyholders' Rating of A- (or higher) and Financial Size Category Class VII (or larger) in accordance with the latest edition of Best's Key Rating Guide, unless otherwise approved by the Agency's risk manager.

<u>Waiver of Subrogation</u>. All insurance coverage maintained or procured pursuant to this agreement shall be endorsed to waive subrogation against Agency, its elected or appointed officers, agents, officials, employees and volunteers or shall specifically allow Contractor or others providing insurance evidence in compliance with these specifications to waive their right of recovery prior to a loss. Contractor hereby waives its own right of recovery against Agency, and shall require similar written express waivers and insurance clauses from each of its subconsultants.

Enforcement of Contract Provisions (non estoppel). Contractor acknowledges and agrees that any actual or alleged failure on the part of the Agency to inform Contractor of non-compliance with any requirement imposes no additional obligations on the Agency nor does it waive any rights hereunder.

Requirements Not Limiting. Requirements of specific coverage features or limits contained in this Section are not intended as a limitation on coverage, limits or other requirements, or a waiver of any coverage normally provided by any insurance. Specific reference to a given coverage feature is for purposes of clarification only as it pertains to a given issue and is not intended by any party or insured to be all inclusive, or to the exclusion of other coverage, or a waiver of any type. If the Contractor maintains higher limits than the minimums shown above, the Agency requires and shall be entitled to coverage for the higher limits maintained by the Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the Agency.

**Notice of Cancellation**. Contractor agrees to oblige its insurance agent or broker and insurers to provide to Agency with a thirty (30) day notice of cancellation (except for nonpayment for which a ten (10) day notice is required) or nonrenewal of coverage for each required coverage.

<u>Additional Insured Status</u>. General liability policies shall provide or be endorsed to provide that Agency and its officers, officials, employees, agents, and volunteers shall be additional insureds under such policies. This provision shall also apply to any excess/umbrella liability policies.

<u>Prohibition of Undisclosed Coverage Limitations</u>. None of the coverages required herein will be in compliance with these requirements if they include any limiting endorsement of any kind that has not been first submitted to Agency and approved of in writing.

<u>Separation of Insureds</u>. A severability of interests provision must apply for all additional insureds ensuring that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the insurer's limits of liability. The policy(ies) shall not contain any cross-liability exclusions.

Pass Through Clause. Contractor agrees to ensure that its subconsultants, subcontractors, and any other party involved with the project who is brought onto or involved in the project by Contractor, provide the same minimum insurance coverage and endorsements required of Contractor. Contractor agrees to monitor and review all such coverage and assumes all responsibility for ensuring that such coverage is provided in conformity with the requirements of this section. Contractor agrees that upon request, all agreements with consultants, subcontractors, and others engaged in the project will be submitted to Agency for review.

Agency's Right to Revise Requirements. The Agency reserves the right at any time during the term of the contract to change the amounts and types of insurance required by giving the Contractor a ninety (90)-day advance written notice of such change. If such change results in substantial additional cost to the Contractor, the Agency and Contractor may renegotiate Contractor's compensation.

<u>Self-insured Retentions</u>. Any self-insured retentions must be declared to and approved by Agency. Agency reserves the right to require that self-insured retentions be eliminated, lowered,

or replaced by a deductible. Self-insurance will not be considered to comply with these specifications unless approved by the Agency.

<u>Timely Notice of Claims</u>. Contractor shall give Agency prompt and timely notice of claims made or suits instituted that arise out of or result from Contractor's performance under this Agreement, and that involve or may involve coverage under any of the required liability policies.

<u>Additional Insurance</u>. Contractor shall also procure and maintain, at its own cost and expense, any additional kinds of insurance, which in its own judgment may be necessary for its proper protection and prosecution of the work.

## EXPERIENCE AND SAFETY

The successful bidder may be required to submit a statement attesting to its financial responsibility, technical ability, experience, and safety record.

## PREVAILING WAGES

- A. Wage rates for this Project shall be in accordance with the "General Wage Determination Made By the Director of Industrial Relations Pursuant To California Labor Code, Part 7, Chapter 1, Article 2, Sections 1770, 1773 and 1773.1 ", for Los Angeles County. Wage rates shall conform to those on file at City Hall and the Project site.
- B. The following Labor Code sections are hereby referenced and made a part of this Agreement:
  - (i) Section 1775, Penalty for Failure to Comply with Prevailing Wage Rates.
  - (ii) Section 1777.4, Apprenticeship Requirements.
  - (iii) Section 1777.5, Apprenticeship Requirements.
  - (iv) Section 1813, Penalty for Failure to Pay Overtime.
  - (v) Section 1810 and 1811, Working Hour Restrictions.
  - (vi) Section 1775, Payroll Records.
  - (vii) Section 1773.8, Travel and Subsistence Pay.

## CONTRACTOR REGISTRATION PROGRAM

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. *Please note:* It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. Any bids submitted without proof that bidder and any listed subcontractor(s) are

currently registered and qualified to perform public work, pursuant to Labor Code Section 1725.5, may not be accepted by the Agency.

## LABOR COMPLIANCE MONITORING AND ENFORCEMENT

The project is subject to compliance monitoring and enforcement by the Department of Industrial Relations (California Labor Code Section 1771.4).

#### AGREEMENT

When the award of a contract is made to a corporation, the Agreement must be signed by the Secretary/Treasurer of the corporation in addition to the signature of the President/Vice President, or the public agency needs to receive a copy of a resolution adopted by the Board of Directors of the corporation indicating that the party executing the contract has the authority to bind the corporation.

## **SURETY BONDS**

All surety bonds issued in connection with projects for public works must be accompanied by a power of attorney from the surety company authorizing the person executing the bond to sign on behalf of the company. The power of attorney and the bonds must be executed by the same person, and such signatures shall be notarized.

By the order of the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY dated July 26, 2018.

Mark D. Radecki,	Chairman

## EXHIBIT D

Reduced Set of Project Plans

[Attached]

#### CONSTRUCTION NOTES REMOVE CONCRETE SIDEWALK REMOVE CONCRETE CURB REMOVE CONCRETE CURB AND GUTTER REMOVE CONCRETE MEDIAN ISLAND REMOVE CONCRETE CURB RAME REMOVE CONCRETE DRIVEWAY REMOVE CONCRETE BLOCK WALL REMOVE BITUMINOUS PAVEMENT @@@@@@@@ REMOVE CL FENCE REMOVE CONCRETE CROSS GUTTER CONSTRUCT CONCRETE CURB (TYPE A1-6) PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB (TYPE A1-6) PER APWA STANDARD CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A2-8) PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A3-6) PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A3-6) PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A3-6) PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A3-6) PER APWA CON SIANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A3-8, W = 1') PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A2-8, W = 1') PER APWA STANDARD PLAN 120-2 388888888 CONSTRUCT CONCRETE CURB, MEDIAN NOSE TRANSITION CONSTRUCT CURB RAMP PER APWA STANDARD PLAN 111-5. CASE & TYPE PER PLAN CONSTRUCT CONCRETE WALK, 4" THICK PER APWA STD PLAN 112-2 CONSTRUCT CONCRETE DRIVEWAY PER CALTRANS STANDARD PLAN ABTA (COMMERCIAL W-3) (CONSTRUCT PAVEMENT, 0.25' THICK ASPHALT CONCRETE PAVEMENT OVER 0.33' THICK UNTREATED BASE (CAB) (CONSTRUCT PAVEMENT, 0.5' THICK ASPHALT CONCRETE OVER 0.8' THICK UNTREATED BASE (CAB) OVER 1.1.C LASS' 2 AGGREGATE SUBBOASE CONSTRUCT CONCRTE PAD, SEE TUNNEL PLANS FOR DETAIL CONSTRUCT AC OVERLAY MAY 0.5' COLD MILLING EXISTING PAVEMENT AND MINIMAN 0.5X ASPHALT CONCRETE PAVEMENT CONSTRUCT AC OVERLAY, MAX D.33 COLD MILL EXISTING PAVEMENT AND MINIMAN 0.33 THICK ASPHALT CONCRETE PAVEMENT MEDIAN TAPER PER APWA STO PLAN 140-3 CONSTRUCT RW, SEE "RETAINING WALL PLANS" CONSTRUCT GOLF CART TUNNEL, SEE TUNNEL PLANS CONSTRUCT MGS (WOOD POST), TYPE 11B LAYOUT PER CALTRANS STANDARD PLANS ATTL1 AND ATTP1 CONSTRUCT ALTERNATIVE FLARED TERMINAL SYSTEM CONSTRUCT END ANCHOR ASSEMBLY (TYPE SFT) PER CALTRANS STANDARD PLAN A7751 CONSTRUCT CL FENCE (H=6') PER APWA STD PLAN 600-3 CONSTRUCT CL GATE, 4' WALK GATE PER APWA STD PLAN 60D-3 RELOCATE EXISTING STREETLIGHT 24" BEHIND PROPOSED CURB & STREETLIGHT 24" BEHIND PROPOSED CURB & GUTTER (BY INSTALL OTHERS) PROTECT-IN-PLACE REMOVE ABANDONED CABINET ADJUST PULL BOX TO GRADE (BY OTHERS) ADJUST MANHOLE COVER TO GRADE (BY OTHERS) ADJUST WATER VALVE TO GRADE (BY OTHERS) RELOCATE TRAFFIC CONTROL AND SIGNAL CABINETS ADJUST EXISTING SCE VAULT (BY OTHERS) RELOCATE EXISTING POWER METER CABINET (BY OTHERS) RELOCATE EXISTING UTILITY VAULT (BY OTHERS) RELOCATE EXISTING WATER METER (BY OTHERS) RELOCATE EXISTING WATER VALVE (BY OTHERS) RELOCATE EXISTING FIRE HYDRANT (BY OTHERS) RELOCATE EXISTING RECLAIMED WATER VENT (BY OTHERS) RELOCATE EXISTING EDISON VENT (BY OTHERS) RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET (BY Ŏ ூ RELOCATE EXISTING FRONTIER PULL BOX (BY OTHERS) ➅ RELOCATE EXISTING IRRIGATION CABINET RELOCATE EXISTING SCE SPLICE BOX (BY OTHERS) RELOCATE EXISTING ELECTRICAL PULL BOX (BY OTHERS) REVISIONS

## CITY OF DIAMOND BAR

## DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF

## GRAND AVENUE/GOLDEN SPRINGS DRIVE

FROM 732 FT NORTH OF GOLDEN SPRINGS DRIVE TO LAVENDER DRIVE ON GRAND AVENUE

FROM 673 FT WEST OF GRAND AVE TO 484 FT EAST OF GRAND AVE ON GOLDEN SPRINGS DRIVE PROJECT NO. XXXXX

> TO BE SUPPLEMENTED BY APWA STANDARD PLANS 2015 AND CALTRANS STANDARD PLANS 2015



#### NOTICE TO THE CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECDRDS. APPROVAL OF THIS PLAN BY THE CITY OF DIAMOND BAR DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF LOCATION OR WHERE THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT THE UTILITY LINES NOT RECORDED OR NOT SHOWN ON THESE PLANS.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY FOR ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNJFY AND HOLD THE CITY AND THE ENGINEER HARMLESS FOR ANY AND ALL LIABILITY, REAL OR ALLEGEO, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR THE ENGINEER.

CONTRACTOR IS HEREBY INFORMED ABOUT A CALTRANS PROJECT (SR-60) WHICH MAY INVOLVE DN AND OFF RAMP CLOSURE(S), DETOUR(S) AND POSSIBLE WORK IN THE VICINITY OF THE EAST BOUND SR-6D ON- AND OFF-RAMPS, CONSISTING OF CONSTRUCTION OF CURB & GUTTER, SIDEWALK, CURB RAMP, CURB RETURNS AND SIGNAL POLE RELOCATION.

MALLET BARN MAR'S. MANNY WARE

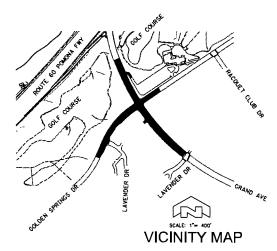
HARLE AND THE PROPERTY AND ARREST

#### UTILITY AGENCIES

SOUTHERN CALIFORNIA EDISON COMPANY WALNUT VALLEY WATER DISTRICT SOUTHERN CALIFORNIA GAS COMPANY SPECTRUM WASTE MANAGEMENT VALLEY VISTA SERVICES

## PHONE NO.

909-469-6369 B00-422-4133 909-592-3766 909-595-1268 714-634-3037 626-914-43B2 626-96D-7551 626-33D-3219



#### INDEX OF SHEETS

TITLE AND GENERAL NOTES 3-5 TYPICAL CROSS SECTIONS PLAN AND PROFILE CONSTRUCTION DETAILS 18-23 GRADING PLANS 24-3D DRAJNAGE PLANS 31-33 UT]L]TY PLANS 34-58 STAGE CONSTRUCTION AND TRAFFIC HANDIING PLANS 59-62 PAVEMENT DELINEATION PLANS SIGN PLANS 63-65 RETAINING WALL PLANS 66-73 LANDSCAPE & IRRGATION PLAN 74-B1 82 EROSION CONTROL PLAN LIGHTING PLANS TEMPORARY STEET LIGHTING PLANS TRAFFIC SIGNAL PLANS 89-9D 91-1D1 TEMPORARY TRAFFIC SIGNAL PLANS 1D2-1D3 TRAFFIC SIGNAL MODIFICATION PLANS 1D4-111 TUNNEL PLANS 112-116 LOG OF TEST BORINGS 117-139 STREET LANDSCAPING PLANS

#### UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCES OF UNDERGROUND FACILITIES NOT SHOWN DR IN A LOCATION DIFFERENT FROM THAT WHICH IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE.

48 HOURS PRIOR TO ANY EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1-(800)-422-4133.



CITY OF DIAMOND BAR

TITLE SHEET FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

SHEET T-1

SHEET 1 DE136

Tuerin Ave, Suite 215 Barta Ano, CA 92705 Phone (114) 963-2886 Fax (114) 963-3608 VKE. PREPARED INDER THE SUPERVISION OF

#### **GENERAL NOTES**

- 1. ALL WORK, LABOR AND MATERIALS SHALL BE IN CONFORMITY WITH THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION (2015 EDITION) AND ITS SUPPLEMENT; THESE PLANS; THE PROJECT SPECIFICATIONS AND ALL SAFETY REGULATIONS; CODES AND REQUIREMENTS PERTINENT TO THE PROJECT CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS AND SHALL PROVIDE 24 HOUR SERVICE TO REMOVE, INSTALL, RELOCATE AND MAINTAIN WARNING DEVICES.
- 3. LOCATIONS OF EXISTING SURFACE UTILITIES AND FACILITIES SHOWN ON THE PLANS ARE BASED ON INFORMATION RECEIVED FROM VARIOUS UTILITY COMPANIES, LOCAL ACENCIES AND FIELD INVESTIGATION. THE CONTRACTOR IS ADVISED THAT LOCATIONS SHOWN ARE APPROXIMATE AND EXTREME CAUTION IS REQUIRED TO PROTECT THE EXISTING FACILITIES.
- THE CONTRACTOR IS ADVISED TO USE EXTREME CAUTION AND PROTECT ALL EXISTING UTILITIES AND FACILITIES IN PLACE UNLESS OTHERWISE NOTED.
- AT NO TIME SHALL ANY BUSINESS BE WITHOUT ACCESS UNLESS OTHERWISE APPROVED.
- 6. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM THE CITY OF DIAMOND BAR AND CALTRANS IF WORK IS IN THE STATE RIGHT-OF-WAY.
- THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DIVISION AT (909) B39-7040 AT LEAST 48 HOURS PRIOR TO STARTING WORK ON THE PROJECT. ALL WORK SHALL BE SUBJECT TO CITY AND/OR STATE INSPECTION.
- B. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES BY SWEEPING PAVED AREAS AND WATERING.
- CONSTRUCTION SURVEY & STAKING SHALL BE PROVIDED BY THE ENGINEER.
- 10. ALL NECESSARY MATERIALS & COMPACTION TESTING RELATED TO WORK WILL BE DONE BY LABORATORY APPROVED BY THE CITY. THE COST FOR THE TESTING SHALL BE BORNE BY THE CONTRACTOR.
- 11. WORK HOURS SHALL BE AS DETAILED IN PROJECT
  SPECIFICATIONS. NO WORK SATURDAYS, SUNDAYS AND HOLIDAYS
  OBSERVED BY THE CITY.

ENGINEER'S/SURVEYOR'S STATEMENT REGARDING THE PRESENCE OF MONUMENTS WITHIN PROJECT LIMITS HERERY ATTEST THAT I HAVE LOCATED AND REFERENCED ON THESE PLANS THE MONUMENT EXISTING PRIOR TO CONSTRUCTION OF SURFIEL LOCATION IN ACCORDANCE WITH SECTION 87TH OF THE BUSINESS AND PROFESSIONS CODE. AND FIRST OF THE BUSINESS AND PROFESSIONS CODE. THE BUSINESS AND PROFESSIONS CONTROL TO THE BUSINESS AND PROFESSIONS CODE. AND FIRST ANSPECTION TO DERTIFY EXISTING MONUMENTS. SHALL SET SUFFICIENT CONTROLLING, WITHESS, AND PERMENANT ON SUMMERTS. AND SHALL FILE THE REDUISTIE CORNER RECORD OR RECORD OF SURVEY OF THE REFERENCES WITH THE COUNTY

ENGINEER/SURVEYOR SEAL & SIGNATURE

DATE

#### **ABBREVIATIONS**

N.T.S.

NOT TO SCALE

ON CENTER

AC .	ASPHALT CONCRETE	OG	ORIGINAL GROUND
AFTS	ALTERNATIVE FLARED TERMINAL SYSTEM	OH	OVERHEAD
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	PCC	PORTLAND CEMENT CONCRETE
AVE	AVE NUE	PCC	POINT OF COMPOUND CURVE.
ВC	BEGIN HORIZONTAL CURVE	PG	PROFILE GRADE
BCR	BEGIN CURB RETURN	POC	POINT OF HORIZONTAL CURVE
BEG	BEGIN	POT	POINT OF TANGENT
BAC	BEGIN VERTICAL CURVE	PRC	POINT OF REVERSE CURVE
C&G	CURB AND GUTTER	PVC	POLYVINYL CHLORIDE
CAB	CRUSHED AGGREGATE BASE	PVMT	PAVEMENT
CB	CATCH BASIN	R.∕W	RIGHT OF WAY
CI.	CHAIN LINK	RCB	REINFORCED CONCRETE BOX
CONC	CONCRETE	RCP	REINFORCED CONCRETE PIPE
CR	CURB RETURN	RT.	RIGHT
CSP	CORRUGATED STEEL PIPE	RW	RETAINING WALL
DR	DRIVE	58	SOUTHBOUND
DWY	DRIVEWAY	SCE	SOUTHERN CALIFORNIA EDISON
EA	EACH	SPEC	SPECIAL
EB	EASTBOUND	50	SOUARE
EC	END HORIZONTAL CURVE	STA	STATION
FCR	END CURB RETURN	510	STANDARD
ELEV	ELEVATION	SW	SIDEWALK
E'LY	EASTERLY	TC	TOP OF CURB
ETW	EDGE OF TRAVELED WAY	TCE	TEMPORARY CONSTRUCTION EASEMENT
EVC	END VERTICAL CURVE	THK	THICK
EXIST	EXISTING	TRANS	TRANSITION
FES	FLARED END SECTION	TYP	TYPICAL
ΓG	FINISHED GRADE	UG	UNDERGROUND
FL	FLOW LINE	USA	UNDERGROUND SERVICE ALERT
FT	FEET	VAR	VARIES
GAL V	GALVANIZED	VCP	VITRIFIED CLAY PIPE
НМА	HOT MIX ASPHALT	WB	WESTBOUND
JS	JUNCTION STRUCTURE	₩'LY	WESTERLY
LACPW	LOS ANGELES COUNTY PUBLIC WORKS	WVWD.	WALNUT VALLEY WATER DISTRICT
LOW	LOW POINT	W.W.F.	WELDED WIRE FABRIC
LT	LEFT		
MAX	MAXIMUM		
MGS	MIDWEST GUARDRAIL SYSTEM		
MIN	MENIMUM		
NB	NORTHBOUND		
NO.	NUMBER		



CITY OF DIAMOND BAR General Notes for Grand Ave/Golden Springs Dr

DEPARTMENT OF PUBLIC WORKS

PROJECT NO. — SHEET T-2 SHEET 2 OF 139

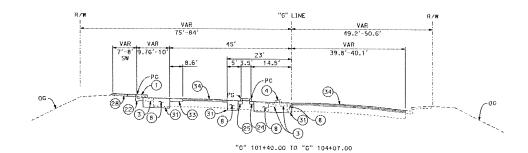
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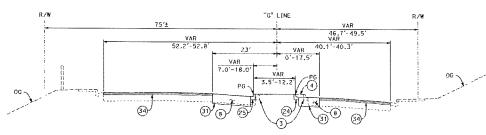
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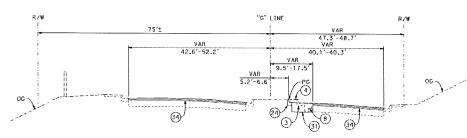
"G" 99+50.00 TO "G" 101+40.00

#### CONSTRUCTION NOTES

- REMOVE CONCRETE SIDEWALK
- REMOVE CONCRETE CURB AND GUTTER
- **(1)** REMOVE CONCRETE MEDIAN ISLAND
- $\widecheck{\mathbb{B}}$ REMOVE BITUMINOUS PAVEMENT
- (55)

- 24 25
- 28

- REMOVE BITUMINOUS PAVEMENT
  CONSTRUCT CONCERTE CURB AND GUTTER (TYPE
  A2-8) FER APWA STANDARD FLAN 120-2
  A3-8, W = 17 FER APWA STANDARD FLAN 120-2
  CONSTRUCT CONCERTE CURB AND GUTTER (TYPE
  A2-8, W = 17 FER APWA STANDARD FLAN 120-2
  CONSTRUCT CONCERTE CURB AND GUTTER (TYPE
  A2-8, W = 17 FER APWA STANDARD PLAN 120-2
  CONSTRUCT CONCERTE WALK, 4" THICK PER APWA
  STO PLAN 112-2
  CONSTRUCT PAVEWENT, 0.5 THICK ASPHALT
  CONCERTE OVER 1.0 STANDARD FLAN FLAN CONSTRUCT AC OVER 1.4 MAX 0.5 COLD MILLING
  ECABL OVER 1.1" CLASS 2 AGGREGATE SUBBASE.
  CONSTRUCT AC OVERLAY, MAX 0.5 COLD MILLING
  CONCERTE AVEWERT AND MINIMUM 0.5" ASPHALT
  CONCERTE AVEWERT AND MINIMUM 0.5" ASPHALT
  CONCERTE FAVEWERT AND MINIMUM 0.5" ASPHALT
  CONCERTE FAVEWERT AND MINIMUM 0.5" ASPHALT
  CONCERTE FAVEWERT AND MINIMUM 0.5" ASPHALT CONCRETE



"G" 95+80.00 TO "G" 99+50.00



GRAND AVE/GOLDEN SPRINGS DR
TYPICAL CROSS SECTIONS FOR
CITY OF DIAMOND BAR

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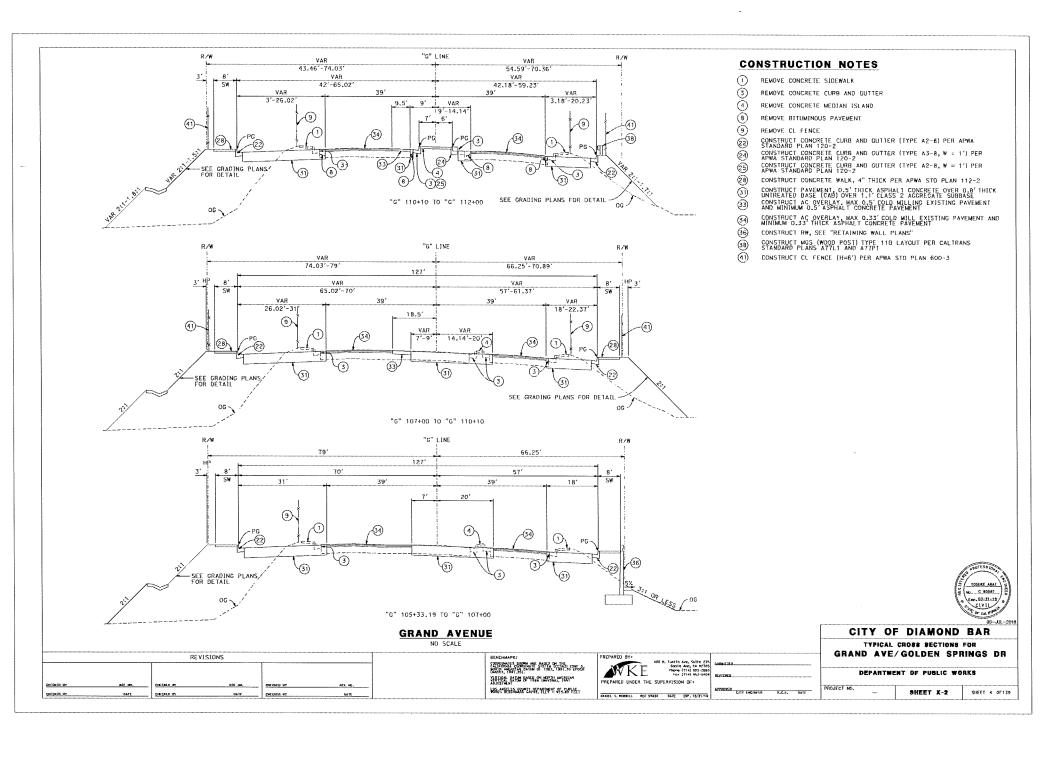
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	APPROVED CITY FACINGER	R.C.E.	OATS.

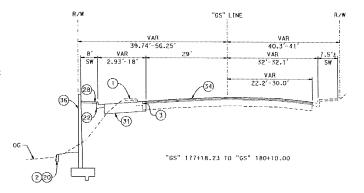
SHEET X-1 SHEET 3 OF139

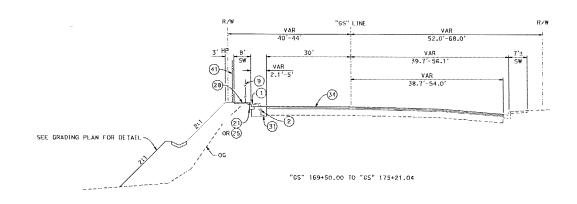


#### CONSTRUCTION NOTES

- REMOVE CONCRETE SIDEWALK
- 2 REMOVE CONCRETE CURB
- <u>③</u> REMOVE CONCRETE CURB AND GUTTER
- <u>(9)</u> REMOVE CL FENCE
- CONSTRUCT CONCRETE CURB (TYPE A1-6) PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB (TYPE A1-8) PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A2-8) PER APWA STANDARD PLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A2-8, W = 1') PER APWA STANDARD FLAN 120-2 CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A2-8, W = 1') PER APWA STANDARD PLAN 120-2 (2) (2)

- 22 25
- (28) CONSTRUCT CONCRETE WALK, 4" THICK PER APWA STD PLAN 112-2
- CONSTRUCT PAYEMENT, 0.5' THICK ASPHALT CONCRETE OVER 0.8' THICK UNTREATED BASE (CAB) OVER 1.1' CLASS 2 AGGREGATE SUBBASE
- GONSTRUCT AC OVERLAY MAX 0.33' COLD WILL EXISTING PAVEMENT AND MINIMUM 0.33' THICK ASPHALT CONCRETE PAVEMENT
- CONSTRUCT RW, SEE "RETAINING WALL PLANS"
- (41) CONSTRUCT CL FENCE (H=6') PER APWA STD PLAN 600-3





#### **GOLDEN SPRINGS DRIVE**

NO SCALE

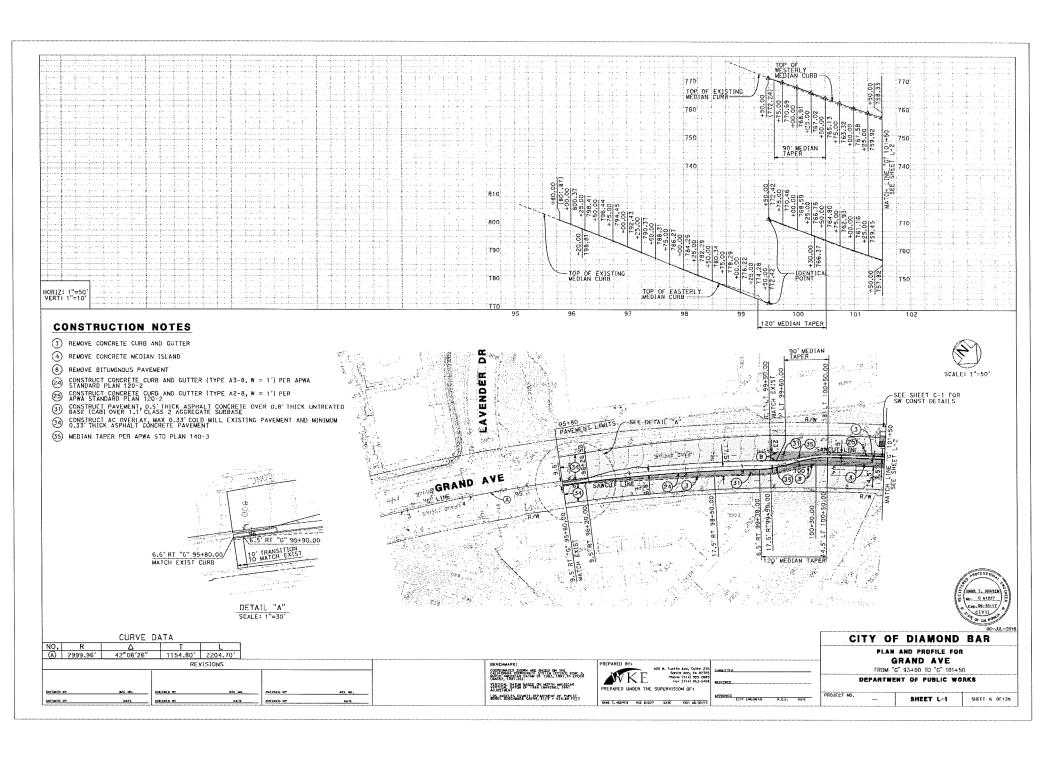
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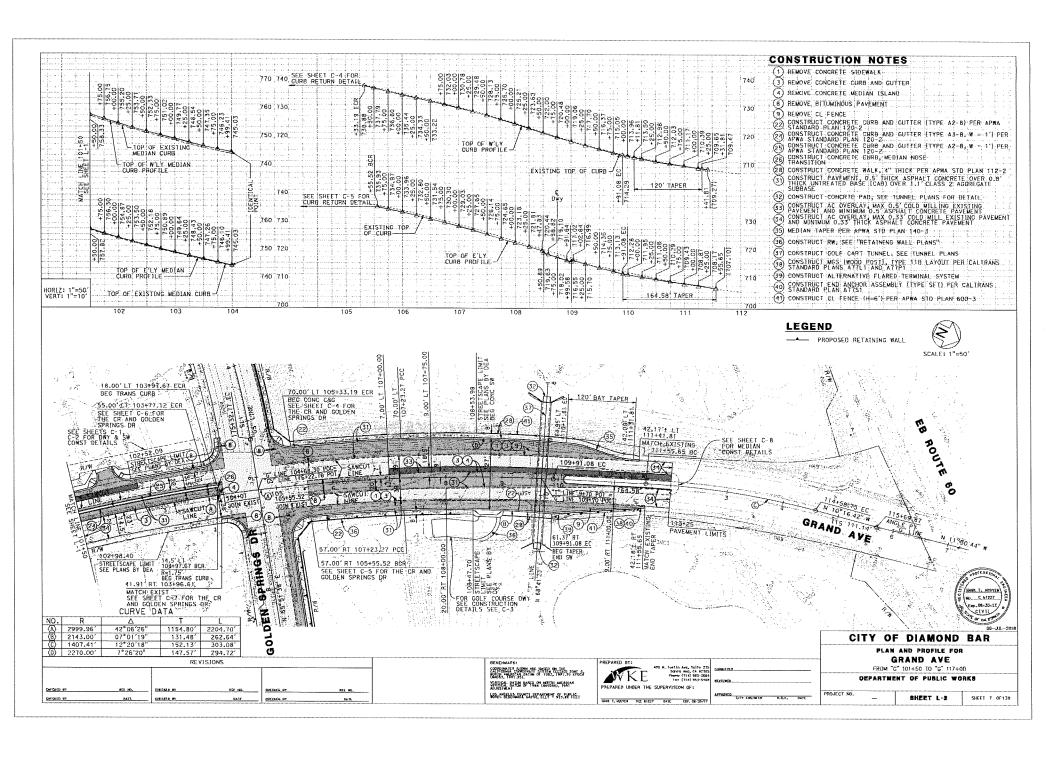
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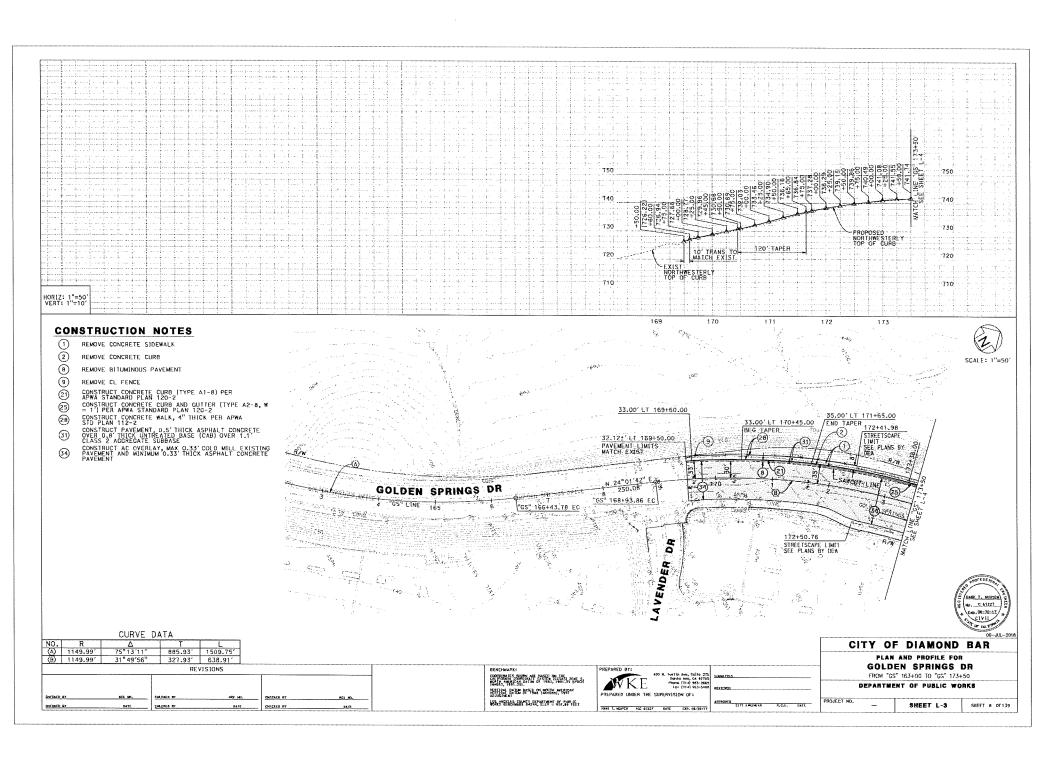
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Fax (114) 993-2865	BEVICKER
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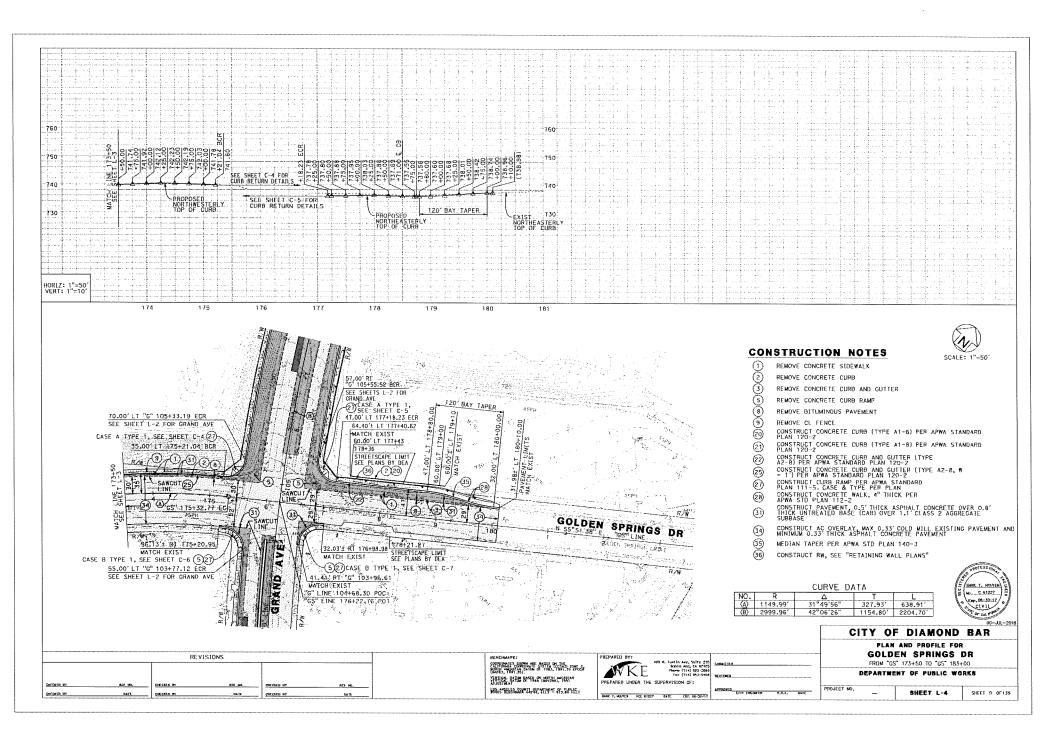
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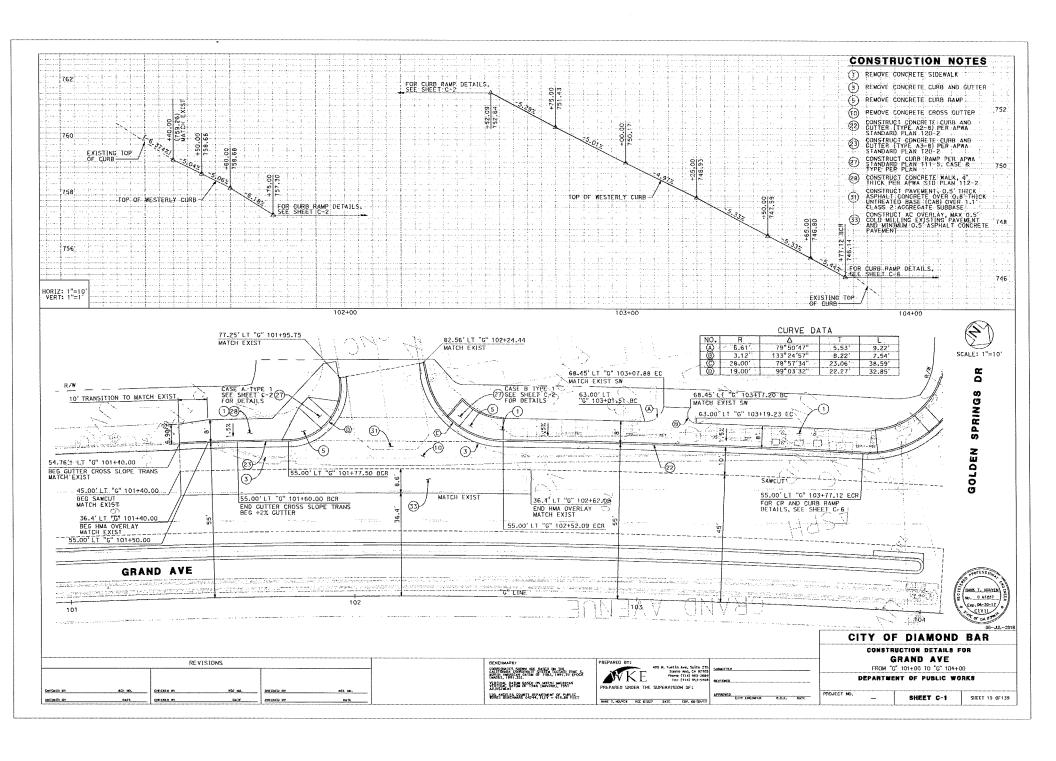
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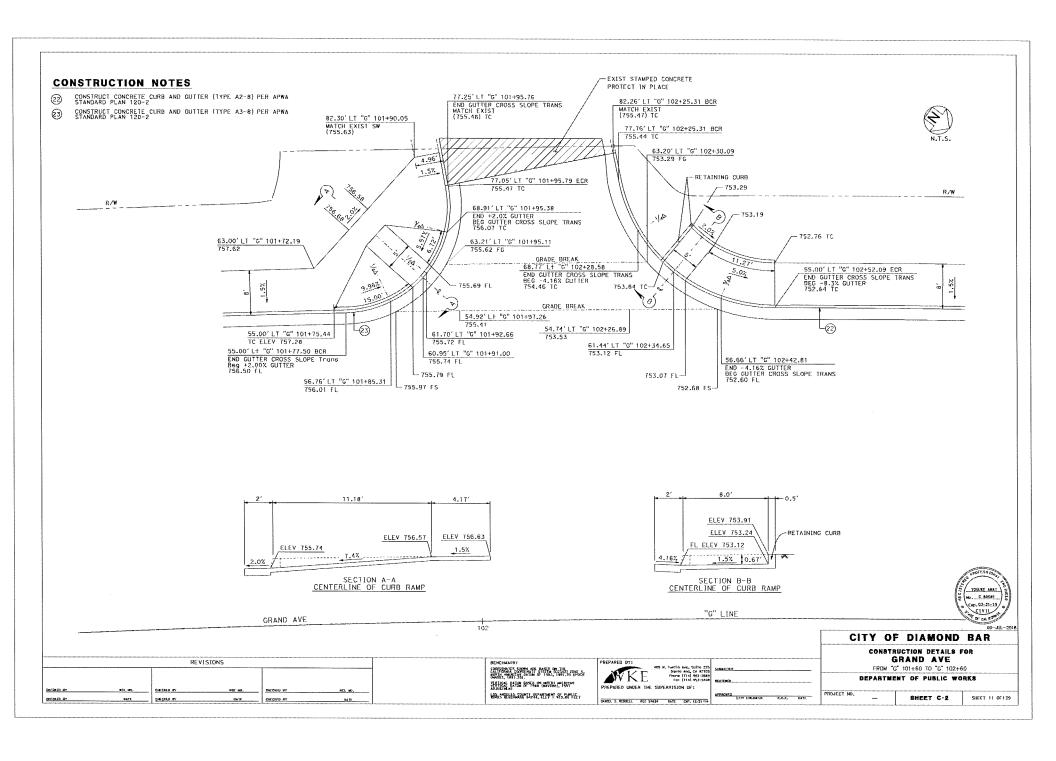


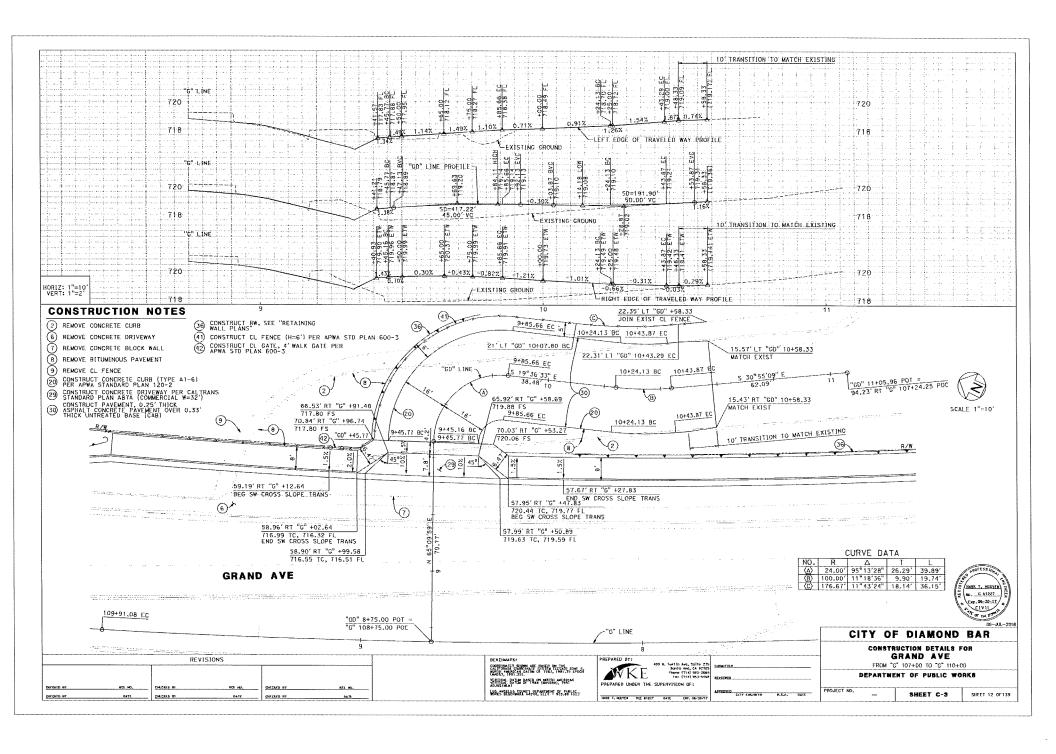


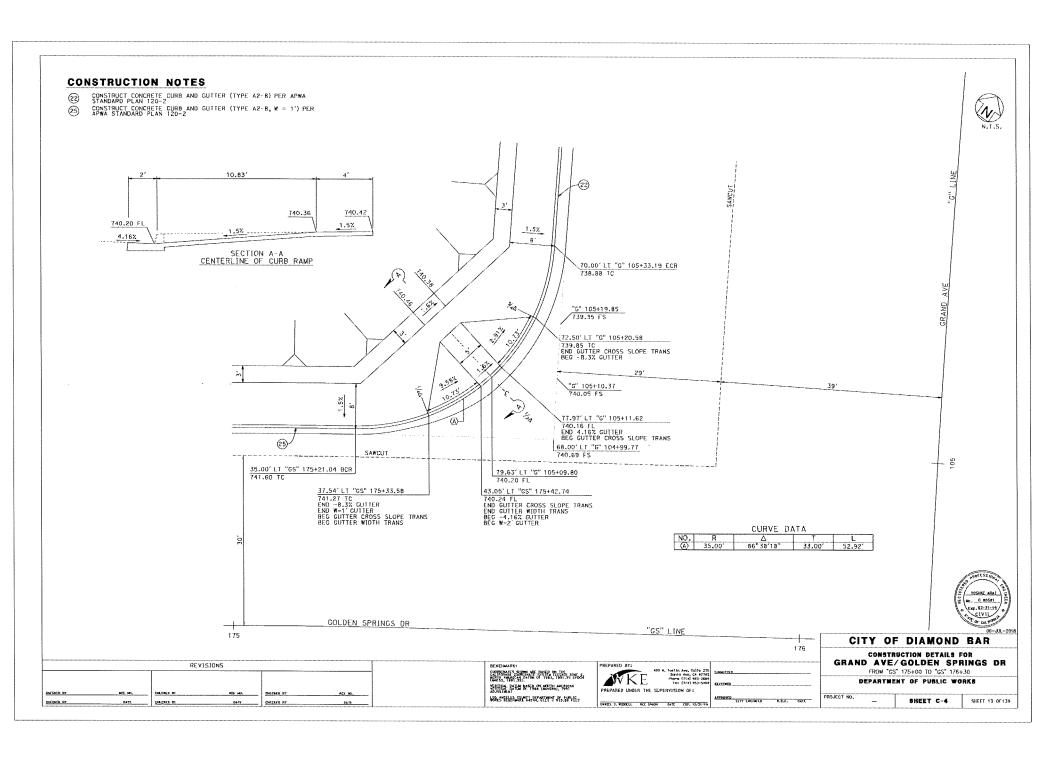


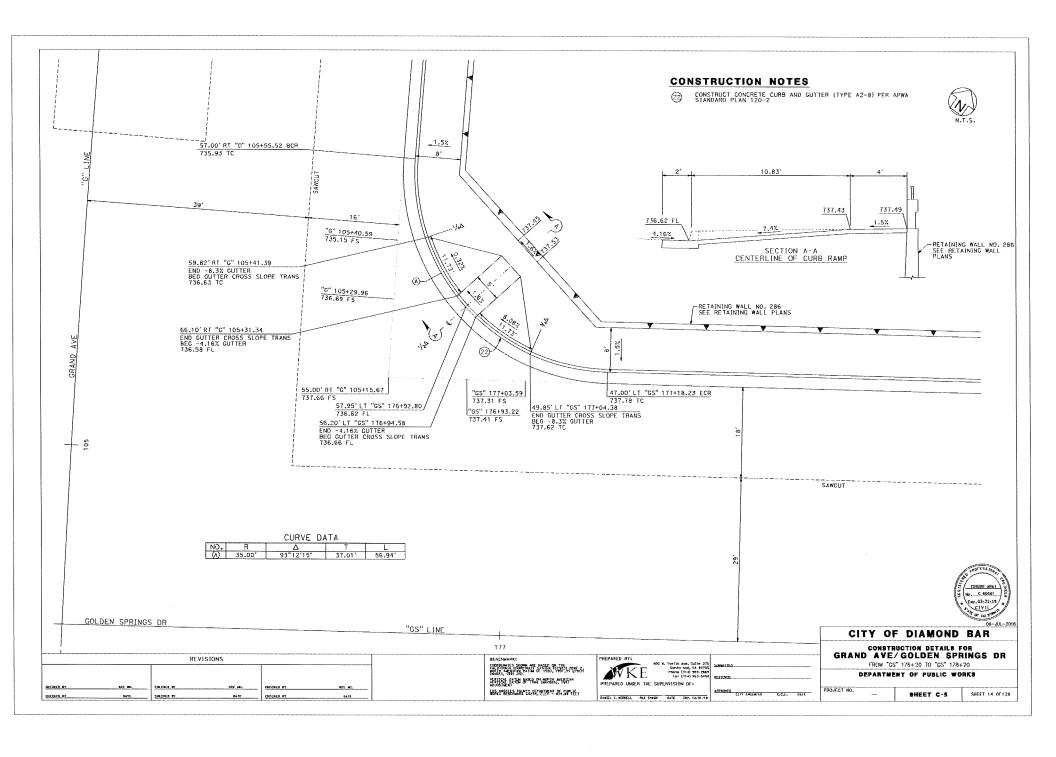




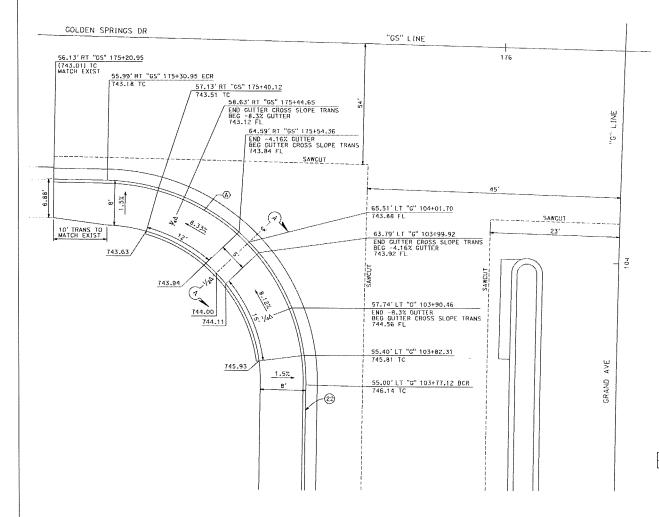


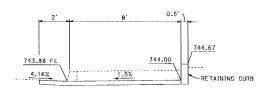












SECTION A-A CENTERLINE OF CURB RAMP

# CONSTRUCTION NOTES

CONSTRUCT CONCRETE CURB AND GUTTER (TYPE A2-8) PER APWA

CURVE DATA



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CONSTRUCTION DETAILS FOR GRAND AVE/GOLDEN SPRINGS DR FROM "CS" 175+20 TO "GS" 176+30

15 OF 139

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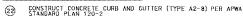
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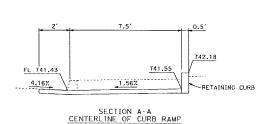
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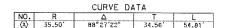


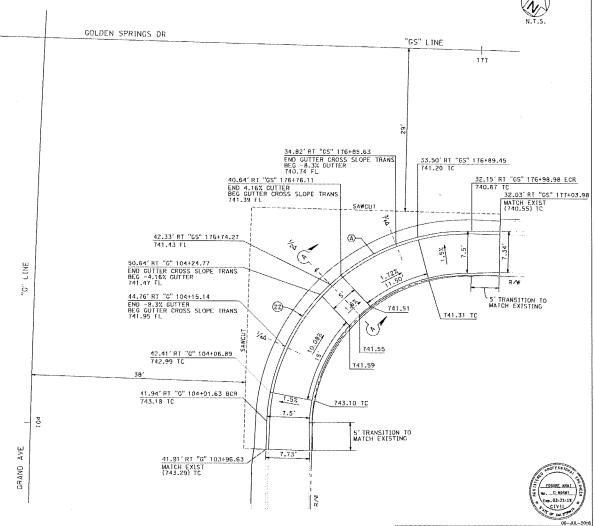












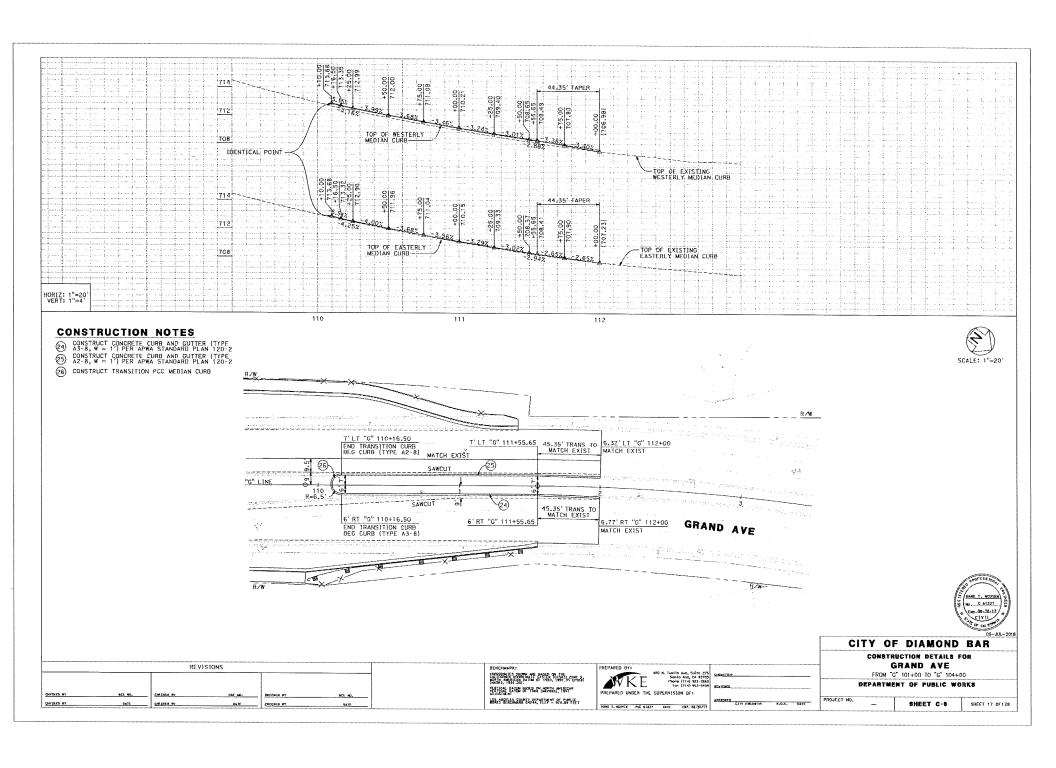
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CITY OF DIAMOND BAR CONSTRUCTION DETAILS FOR GRAND AVE/GOLDEN SPRINGS DR FROM "GS" 176+10 TO "G" 177+10 DEPARTMENT OF PUBLIC WORKS

SHEET C-7

SHEET IN OF139



# (GENERAL INFORMATION)

- CRAINING THE UMBALLUNI

  GRADINE PERMIT APPLICATION NO. GRIT12190003

  EARTHWORK VOLUMES

  OVER EXCANTON' ALLUVIAL REMOVAL & COMPACTION 7,184 (CY) \*

  1011AL DISTURBED AREA 4.58 FACE 13,800 A2.5 SOLDER FEET NOTAL

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  TOTAL PROPOSED LANDSCARP AREA 13,800 A2.5 SOLDER FEET NOTAL

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  PROPOSED EXPLANT MATERIAL 15 SSABLISHED

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  POST JOEVELOPPINT

  LIVER TOWN OF A STANDARD AREA 13,1 (ACRES) \*

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  LIVER TOWN OF A STANDARD AREA 13,1 (ACRES) \*

  POST

### (PROPERTY INFORMATION)

- PROPERTY ADDRESS: 22751 GOLDEN SPRINGS DRIVE DIAMOND DAR, CA 91765 PROPERTY (DMRE: LA COUNTY ASSESSOR'S ID NUMBER(S): 8717-001-908, 8717-002-905

# (ZONING, REGIONAL PLANNING, AND OTHER AGENCY INFORMATION)

PROPERTY ZONING: ZONE C-R INTENDED LAND USE: COMMERCIAL-RECREATION

### CENERAL NOTES:

- ALL GRADING AND CONSTRUCTION SHALL CONFORM TO THE 2017 COUNTY OF LOS ANGELES BUILDING CODES AT THE STATE MODEL WATER EFFICIENCY LANDSCAPE ORDINANCE UNLESS SPECIFICALLY NOTED ON THESE PLANS.
- ANY MODIFICATIONS OF OR CHANGES TO APPROVED GRADING PLANS MUST BE APPROVED BY THE BUILDING OFFICIAL.
- NO GRAINE SHALL BE STANTEN WITHOUT FIRST MOTTFYING THE BUILDING OFFICIAL A PRE-GRAINE MEETING. AT HE STIE IS RECOURSE DESCRIPTION OF THE STANDING MEETING AND HE STANDING CONTRACTOR, DESIGN CIVIL ENGINEER, SOLIS ENGINEER, EEDIGGIST, COUNTY GRAINE MESPECTRISTS OF THEIR REPRESENTATIVES, AND WHAN REQUIRED THE ARCHOGOSTS ON OTHER JURISDICTIONAL AGENCIES, PERMITTEE OR HIS AGENT ARE RESPONSIBLE FOR ARRANGING PRE-GRADE WEETING AND MUST NOTIFY HE BUILDING OFFICIAL AT LEAST TWO BUINGESS DATS THOR TO PROPOSED PRE-GRADE WEETING AND MUST NOTIFY HE BUILDING OFFICIAL AT LEAST TWO BUINGESS DATS THOR TO PROPOSED PRE-GRADE WEETING AND
- APPROVAL OF THESE PLANS REFLECT SOLELY THE REVIEW OF PLANS IN ACCORDANCE WITH THE COUNTY OF LOS ANGELES ON THE ANGELES BUILDING CODES AND DOES NOT REFLECT ANY POSITION BY THE COUNTY OF LOS ANGELES OR THE EDPARTMENT OF PUBLIC WORKS REGARDING FILE STATUS OF ANY TITLE ISSUES RELATING TO THE LAND ON WHICH THE LIMPOVEMENTS MAY DE CONSTRUCTED, ANY DISPUTES RELATING TO THILE ARE SOLELY A PRIVATE MATTER NOT INVOLVING THE COUNTY OF LOS ANGELES OR THE DEPARTMENT OF PUBLIC WORKS.
- ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH COUNTY OF LOS ANGELES CODE, TITLE 12. SECTION 12.12.030 THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 8:00 PM 10 B:30 AM AND INSTRUCTION ACTIVITY TIMES MAY GOVERN, AS REQUIRED BY THE DEPARTMENT OF RECIONAL PLANNING AND SHOULD BE SHOWN ON THE GRADING FLANNING AND SHOULD BE SHOWN ON THE GRADING FLANNING AND
- CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 705D.5) ADDRESS THE DISCOVERY AND DISCOSTITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OR RECOGNITION ANY HUMAN REMAINS. IN ANY LOCATION OTHER THAN A DEDICATED CENTERTY, THE LAW RECOUNTERS THAT GRADIN JAMEDIATELY STOPS AND NO EVETHER EXCAVATION OR DISTURBANCE OF THE SITE, OR ANY MEARBY AREA WHEE HUMAN REMAINS NAW THE LOCATED, OCCUR WITH. THE FOLLOWING HAS BEEN MEASURES THAT BEEN TAKEN.
  - THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED, AND
  - IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, MITH APPROPRIATE ORIGINTY, OF THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOOD.
- THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITTEE.
- ALL EXPORT OF MATERIAL FROM THE SITE MUST CO TO A PERMITTED SITE APPROVED BY THE BUILDING OFFICIAL OR A LEGAL DUMPSITE.
  - RECEIPTS FOR ACCEPTANCE OF EXCESS MAYERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE DUILDING OFFICIAL UPONREQUEST.
- A COPY OF THE CRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
- SITE GOUNDARIES, EASEMENTS, DRAINAGE DEVIDES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAXING BY FIELD ENGINEER OF LICENSED SHIMVEYOR, PRIDR TO GRADING, AS REQUESTED BY THE BUILDING OFFICIAL, ALL PROPERTY LINES, SEXEMENTS, AND RESTRICTION USE AREAS SHALL BE STAKED.

  A PREVENTIVE PROCRAM TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODERIS IS REQUIRED PER SECTION, 31 O 1.8 OF THE COUNTY OF LOS ANCELES SHUTHON COOK OWNER IS TO INSPECT SLOPES PREDROLATED FOR THE PREVENTION OF REPORTS AND A FIRST EVIDENCE OF THEIR EXISTENCE SHALL BAPLOT AN EXTERMALATION TO THEIR PREVENTION.
- WHERE A CHADING PERMIT IS ISSUED AND THE DUILDING OFFICIAL DETERMINES THAT THE CRADING WILL NOT BE COMPLETED PRIOR TO NOVEMBER 1, THE CHANGE OF THE STIE ON WHICH THE GRADING IS BEING PERFORMED SHALL, ON OR BEFORE OCTOBER 1, FILE OR CAUSE TO BE FILED WITH THE BUILDING OFFICIAL AN ESCP PER SECTION JILO.B.3 OF THE COUNTY OF LOS ANDELES BUILDING DOOR.
- TRANSFER OF RESPONSIBILITY: IF THE FIELD ENGINEER, THE SOLLS ENGINEER, OR THE ENCINEERING CEOLOGIST OF RECORD IS CHANCED DURING BRADING, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN MAILTING TO ACCEPT THEER RESPONSIBILITY WITHIN THE AREA OF TECHNICAL COMPRETENCE FOR APPROVAL UPON COMPLETION OF THE WORK, IT SHALL BE THE DUTY OF THE PERUITTEE TO MOTIFY THE BUILDING OFFICIAL IN MITTING OT SUCJ CHANCE PRIOR TO THE RECOGNMENCEMENT OF SUCJ GRADING.

- 14. THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE BUILDING OFFICIAL AT LEAST ONE WORKING DAY IN ADVANCE OF REQUIRED INSPECTIONS AT FOLLOWING STAGES OF THE WORK. (SECTION J105.7 OF THE BUILDING CODE.)
  - (A) PRE-GRADE BEFORE THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION.
  - (8) INITIAL WHEN THE SITE HAS BEDD CLEARED OF VEGETATION AND UNAPPROVED FILL HAS BEDD SCHREED, BENCHED ON OTHERMISE PREPARED FOR FILL FILL SHALL NOT BE PLACED HAVING TO THIS INSPECTION, ACTIVITIES, INCLUDING GARDING, ALL STRUM MATER POLLUTION PREVENTION MEASURES INCLUDING EROSION CONTROL COLVES WHICH CONTRIB SCHREINS WAST OF INSTALLED.
  - (C) ROUGH WHEN APPROXIMATE FINAL ELEVATIONS HAVE BEEN ESTABLISHED; ORAINAGE TERRACES, SWALES AND BERMS INSTALLED AT THE 10P OF THE SLOPE; AND THE STATEMENTS REQUIRED IN THIS SECTION HAVE BEEN RECEIVED.
  - [0] FINAL WHEN GRADING HAS BEEN COMPLETER; ALL ORATHAGE DEVICES INSTALLED; SLOPE PLANTING ESTABLISHED, INFLATING INSTALLED AND THE AS-BUILT PLANS, REDUIRED STATEMENTS, AND REPORTS HAVE BEEN SUBMITTED AND APPROVED.

- IN ADDITION TO THE INSPECTION REQUIRED BY THE BUILDING OFFICIAL FOR GRADIAG, REPORTS AND STATEMENTS SHALL BE SUBMITTED TO THE BUILDING DEFICTAL IN ACCORDANCE MITH SECTION JIDS OF THE COUNTY OF LOS ANGELES BUILDING CODE.
- UNITED CHERRISE DIRECTED BY THE BUILDING OFFICIAL THE FIELD SMENNER FOR ALL EMPINEERS OF AND REPORT OF THE SMEN AND ALL EMPINEERS OF THE SMEN OFFICIAL AS FOLLOWS:
  - 1. BI-MEEKLY DURING ALL TIMES WHEN GRADING OF 400 CUBIC YARDS OR MORE PER WEEK IS OCCURRING ON THE STEEL OF T

  - SUCH "REPORT OF GRADING ACTIVITIES" SHALL CERTIFY TO THE BUILDING OFFICIAL THAT THE FIELD ENCINEER HAS INSPECTED THE GRADING SITE AND RELATED ACTIVITIES AND HAS FOUND THEM IN COMPLIANCE WITH THE APPROVED GRADING FLANS AND SPECIFICATIONS, HEE BUILDING CODE, ALL DRAIND PERMIT CONDITIONS, AND ALL OTHER APPLICABLE ORDINANCES AND RECOUREWENTS. THIS FORM IS AVAILABLE AT THE FOLLOWING WEBSITE HTTP://DWW.LOCKNIT.GOV/SOS/OF/CTAULT.BRYN. TREPORT OF GRADING ACTIVITIES MAY BE SCAMMED AND THE WEBSITE OF FAMOUR OF THE STANDARD OF THE WEBSITE OF FAMOUR OF THE WEBSITE OF
- 17. ALL GRADED SITES WUST HAVE DRAINAGE SWALES, BERMS, AND OTHER DRAINAGE DEVICES INSTALLED PRIOR 10 ROUGH GRADING APPROVAL PER SECTION JIDS.7 OF THE COUNTY OF LDS ANGELES BUILDING CODE.
- 18. THE GRADING CONTRACTOR SHALL SUBMIT THE STATEMENT TO THE GRADING INSPECTOR AS REQUIRED BY SECTION J 105.17 OF THE COUNTY OF LOS ANGELES BUILDING CODE AT THE COMPLETION OF ROUGH GRADING.
- 19. FINAL CRADING MUST BE APPROVED BEFORE OCCUPANCY OF BUILDINGS WILL BE ALLOWED PER SECTION JIOS OF THE COUNTY OF LOS ANGELES BUILDING CODE.

- 20. PROVISIONS SHALL BE MADE FOR CONTHIBUTORY DRAINAGE AT ALL TIMES.
- 21. ALL STORM DRAIN MORK IS TO BE DONE UNDER CONTINUOUS INSPECTION BY THE FIELD ENGINEER, STATUS REPORTS REQUIRED UNDER NOTE 18 AND SECTION J 105.11 OF THE COUNTY OF LOS ANGELES BUILDING CODE SHALL INCLUDE INSPECTION INFORMATION AND REPORTS ON THE STORM DRAIN INSTALLATION.

- AN ENCROACHMENT PERMIT FROM CITY OF DIAMOND BAR IS REQUIRED FOR ALL WORK WITHIN OR AFFECTING ROAD RIGHT OF WAY, ALL WORK WITHIN ROAD RIGHT OF WAY SHALL CONFORM TO CITY OF DIAMOND BAR ENCROACHMENT PERMIT.
- AM ENCODACHMENT PERMIT/CONNECTION PERMIT IS REQUIRED FROM THE COUNTY OF LOS ANDELES FLOOD CONTROL DISTRICT FOR ALL WORK MITHIN THE COUNTY OF LOS ANDELES FLOOD CONTROL DISTRICT RIGHT OF WAY. ALL WORK SHALL COMPONED TO CONDITIONS SET BY THE PERMIT.
- 24. ALL MORK MITHIN THE STREAMBED AND AREAS CUTLINED DN GRADING PLANS SHALL CONFORM TO: ARMY CORP 404 PERMIT NUMBER: TED CALIFORNIA FISH & WILDLIFE PERMIT NO.: TED
- 25. ALL CONSTRUCTION/DEMOLITION, GRADING, AND STORAGE OF BULK MATERIALS MUST COMPLY WITH THE LOCAL ADUD RULE 403 FOR FUGITIVE DUST. (NFORMATION ON RULE 403 IS AVAILABLE AT ADMO'S MEBSITE HTTP://www.nAVADMO.COM.

## CENERAL GEOTECHNICAL NOTES

- GRADING OPERATIONS MUST BE CONDUCTED UNDER PERIODIC INSPECTIONS BY THE GEOTECHNICAL CONSULTANTS WITH MONTHLE INSPECTION REPORTS TO BE SUBMITTED TO THE GEOLOGY AND SOILS SECTION. (900 S. FREMONT, ALAMARIA CA 91803 380 FLOOM )
- THE SOIL ENGINEER SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF THE FILL TO BE SATISFIED THAT THE WORK IS BEING PEPFORMED IN ACCOMPANCE WITH THE PLAN AND APPLICABLE CODE REQUIREMENT.
- ROUGH GRADING WUST DE APPROVED BY A FINAL ENGINEERING GEOLOGY AND SOILS ENGINEERING REPORT. AN AS-BUILT GEOLOGY MAP MUST BE INCLUDED IN THE FINAL GEOLOGY REPORT, PROVIDE A FINAL REPORT STATEMENT THAT VERTIES MORE WAS DONE IN ACCORDANCE WITH REPORT RECOMMENDATIONS AND CODE PROVISIONS ISSECTION J 105.12 UP INE COUNTY OF 105 ANDELES BUILDING CODE). THE FINAL REPORTISS MUST BE SUBMITTED TO THE CENTENDIAL AND MARKETALS ENDINEERING DIVISION FOR REVIEW AND APPROVAL.
- 30. FOUNDATION EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE CONSULTING GEOLOGIST AND SOFL ENGINEER, PRIOR TO THE PLACING OF STEEL OR CONCRETE.

- ALL FILL SHALL BE COMPACTED TO THE FOLLOWING MINIMAN RELATIVE COMPACTION CRITERIA:
  A. 90 PERCENT OF MAXIMAM DRY DESITY WITHIN 40 FEET BELOW FINISH CRADE.
  B. 92 PERCENT OF MAXIMAM DRY DESITY DEEPER HAN 40 FEEL BELOW FINISH CRADE. UNLESS A LOWER
  FELTITY COMPACTION (BOT LESS THAN 00 FEELCH WANIMAM DRY DENSITY) IS JUSTICED THE
  FELTITY COMPACTION (BOT LESS THAN 00 FEELCH WANIMAM DRY DENSITY) IS JUSTICED TO THE
  FEST DISTORMED FOR THE FEEL OF THE PROPERTY OF THE STATEMENT OF THE BUILDING
  OFFICIAL SHALL BUT SEED. (SECTION JOINS OF THE COUNTY OF LOS MAKELES BUILDING CODE.)
- FIELD DENSITY SHALL BE DETERMINED BY A METHOD ACCEPTABLE TO THE BUILDING OFFICIAL. (SECTION J107.5 OF THE COUNTY OF LOS ANGELES BUILDING CODE,) HOWEVER, NOT LESS THAN 10% OF THE REDUIRED DENSITY TEST, UNIFORMLY DISTRIBUTED, AND SHALL BE OBTAINED BY THE SAND COOK METHOD. 32.

- SUFFICIENT TESTS OF FILL SOILS SHALL BE MADE TO VERIFY THAT THE SOIL PROPERTIES COMPLY WITH THE DISTON REQUIREMENTS, AS DETERMINED BY THE SOIL ENGINEER INCLUDING SOIL TYPES, SHEAR STEENSTHIS PRAMER ERS, AND CERRESPONDE UNTIL MELIONIST, IN ACCORDANCE WHITH THE FOLLOWING COURSE HIST TYPE OF SOIL OF SOIL MIXTURE TO BE USED FOR ALL FILL SLOPES STEEPER THAN THREE (3) HOWIZONTAL TO ONE VERTICAL.

  9. SHEAR TEST, IRSUITS FOR THE PROPOSED FILL MATERIAL MUST MEET OF EXCENTING THE PROPERTY OF MEMORY OF THE PROPERTY OF THE PROPERTY
- FILL SHALL NOT BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBBRAIN (IF ANY) HAVE BEEN INSPECIED AND APPROVED BY THE SOIL ENGINEER, THE BUILDING OFFICIAL MAY REQUIRE A "STANDARD TEST METHOD FOR MOISTURES, ASIL, DOCAMIE MITTER, PEAT OR OTHER PORANTS SOILS, ASIL DO 2974-87 OR ANY SUSPECT MATERIAL. BERIMENTAL MAXIMIS OF ORBAIL ORDER OF ANY SUSPECT MATERIAL. BERIMENTAL MAXIMIS OF ORBAIL ORDER OFFI OR ANY SUSPECT MATERIAL. BERIMENTAL MAXIMIS OF BEALLOWED PROVIDED THAT THE ROOTS ARE IN A QUANTITY AND DISTRIBUTED IN A MAMMER THAT THE LOT BE CETAMENTAL TO THE FUTURE USE OF THE SITE AND THE SOILS ENGINEER APPROVES THE USE OF SUCH MATERIAL.
- ROLE OF STULLAR MATERIAL DEFETER THAN 17 JUDIES IN JUMETER SHALL NOT BE PLACED IN THE STULL WHITE STATEMENT AND ARREST STATEMENT AND ELEVATION OF BOCK OLSPOSIAL AREAS MUST BE SHOWN OR AN AS BUILL'E MANDLO FLAN. 36,

- CONTINUOUS INSPECTION BY THE SOIL ENGINEER, OR A RESPONSIBLE REPRESENTATIVE, SHALL BE PROVIDED DURING ALL SUBDRAIN INSTALLATION. (SECTION J107.2 OF THE COUNTY OF LOS ANGELES DUILDING CODE)
- ALL SUBDRAIN CUTLETS ARE TO BE SURVEYED FOR LINE AND ELEVATION. SUBDRAIN INFORMATION MUST BE SHOWN ON AN "AS BUILT" CRADING PLAN.
  - FILL SLUPES, HE EXCESS OF 271 STEEPHEES BRIDE ARE TO BE CONSTRUCTED BY THE PLACEMENT OF SOIL AT SUFFICIENT DISTANCE REVIEW THE PROPOSED FIRST SLUPE OF ALLOW COMPACTION COUNTRY TO BE OPERATED COMPLETION OF MOUTE CRIME THE BEAUTY OF THE FOREIGN OF THE PLACE OF THE PROPOSED OF THE SUBJECT OF

# PLANTING AND IMPRIBATION NOTES:

- PLANTING AND IRRIGATION NOTES:

  40. PLANTING AND IRRIGATION NOTES:

  41. PLANTING AND IRRIGATION ON GRADED SLOPES MUST COMPLY WITH THE FOLLOWING MINIMUM CUIDCLINES:

  A. HERITAGE SIALL, BE PROTECTED AGAINST SMARE BY EDGIN HEADTH AND MY SLOPES MORE THAN BOTTOM FOR THE STATE OF THE

  - THE PLANTING AND IRRIBATION SYSTEMS SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER ROUGH GRADING, PRIOR TO FINAL GRADING APPROVA ALL REQUIRED SLOPE PLANTING MUST BE WELL ESTABLISHED. (SECTION JITO.7 OF THE COUNTY OF LOWER SEE SUBJUINING COUNT.
- LANDSCAPE IRRIGATION SYSTEM SHALL BE DESIGNED AND MAINTAINED TO PREVENT SPRAY ON STBUCTURES. [TITLE 31 , SECTION 5.407.2.1]
- PRIOR TO ROUGH GRADE APPROVAL THIS PROJECT REQUIRES A LANDSCAPE PERMIT, LANDSCAPE PLANS IN COMPLIANCE THIS WORLD WATER EFFICIENT LANDSCAPE ORDINANCE THILE 23, TO FIND THE 2.T OF THE 2.T O

"AS CIVIL ENGINEER/LAND SURVEYOR OF THIS PROJECT, I HAVE IDENTIFIED THE LOCATION OF ALL EASEMENTS WHICH ARE DEPICTED ON THESE PLANS. I HAVE REVIEWED THE PROPOSED ELASEMENT DOCUMENTS AND VERIFIED THE PROPOSED CONSTRUCTION DOES NOT CONFLICT OR INTERFERE WITH THE INTENDED EASEMENT USE.

CIVIL ENGINEER/LAND SURVEYOR (STAMP AND SIGNATURE)

No. C MOSA1 Exp. 03:31:19

DATE

CITY OF DIAMOND BAR

GRADING PLAN FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

BUFFT Q-1

SHEET 18 OF 139

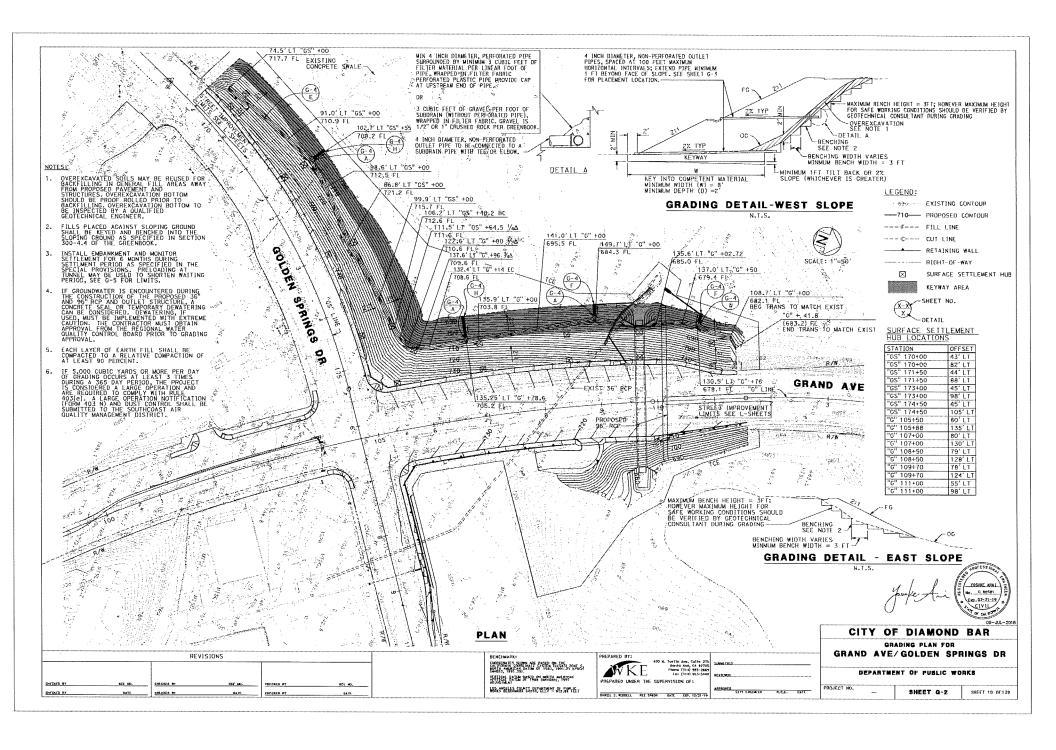
REVISIONS

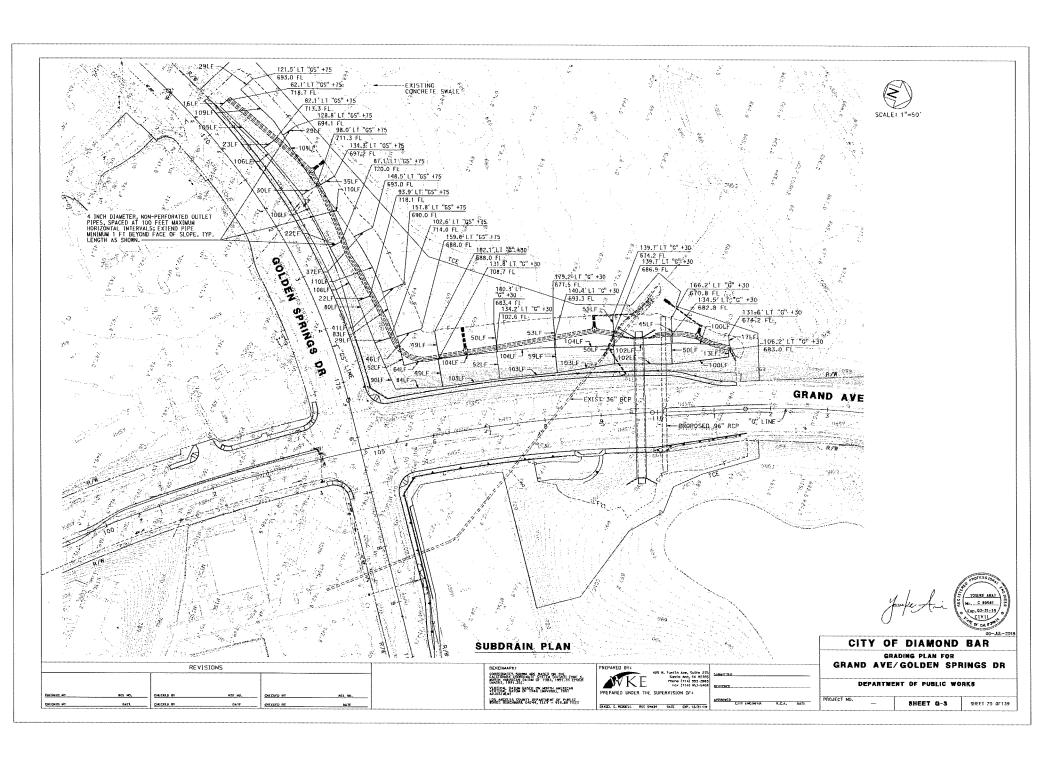
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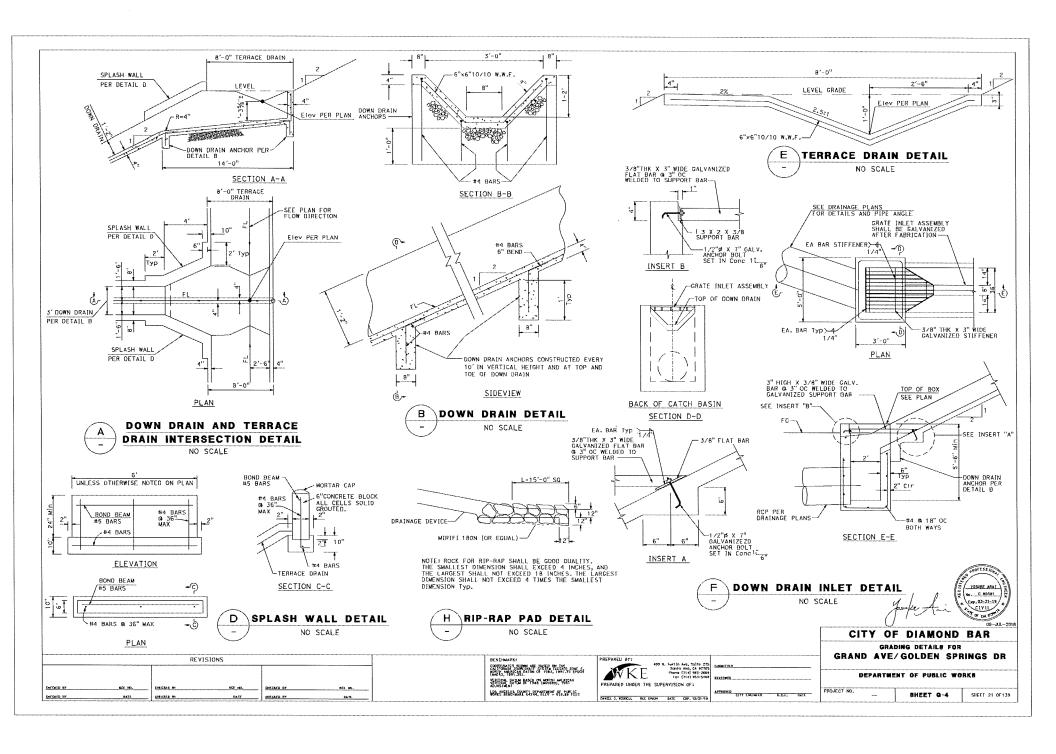
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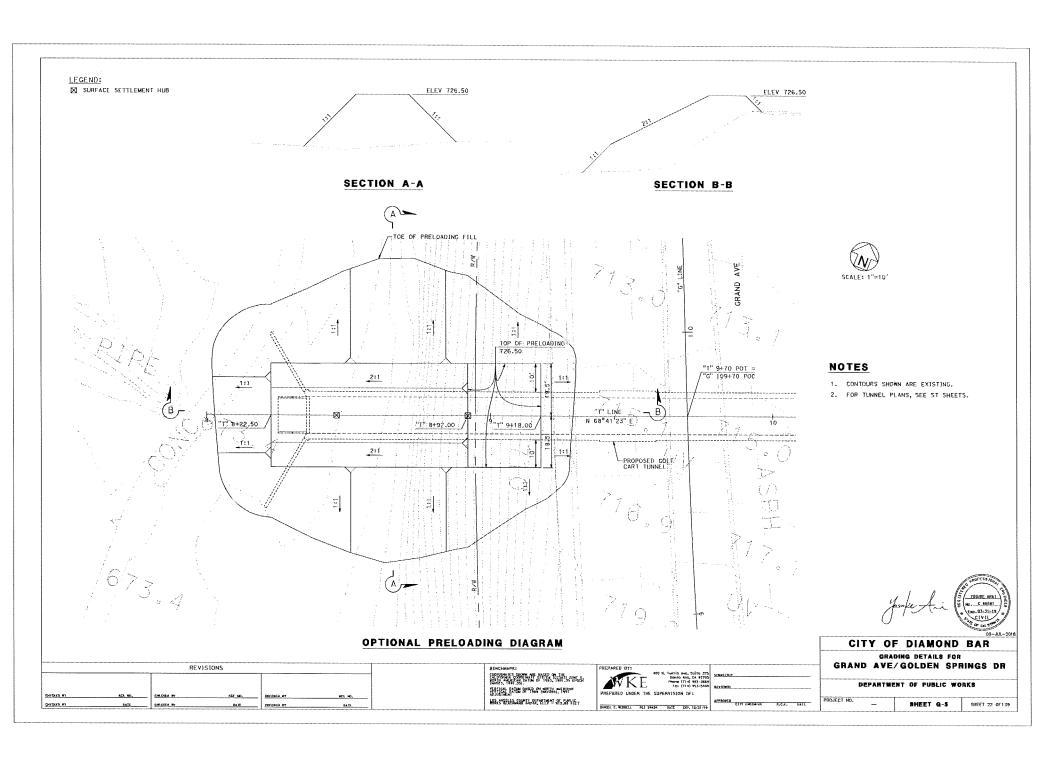
PREPARED BY: WKE

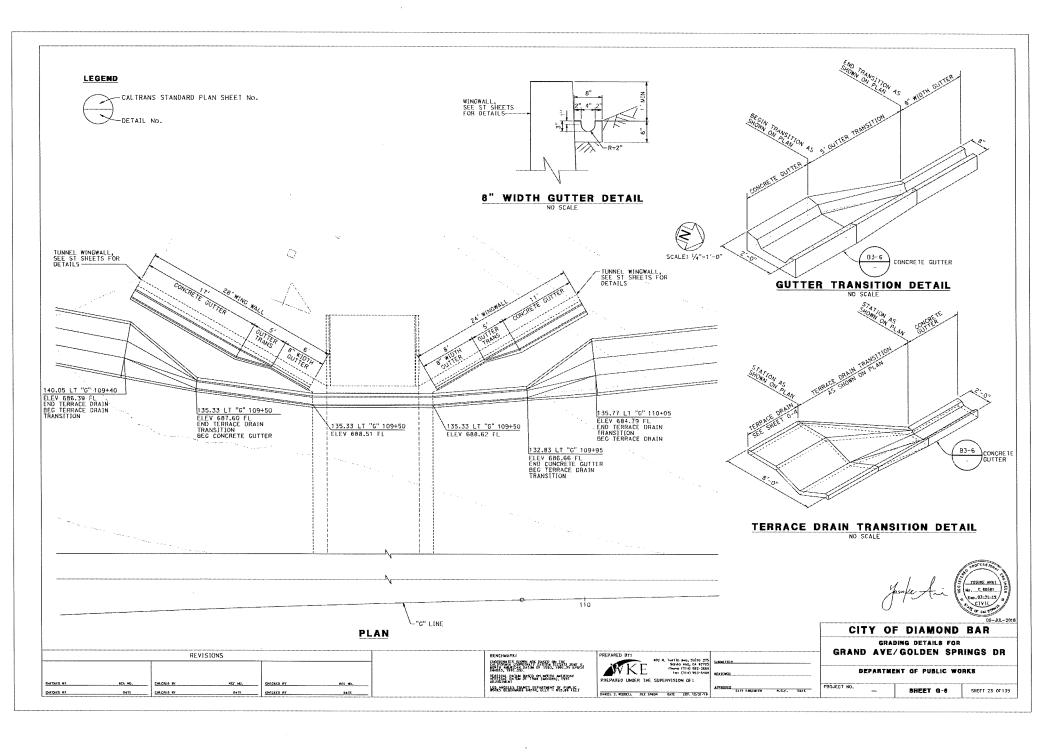
PREPARED UNDER THE SUPERVISION OF:

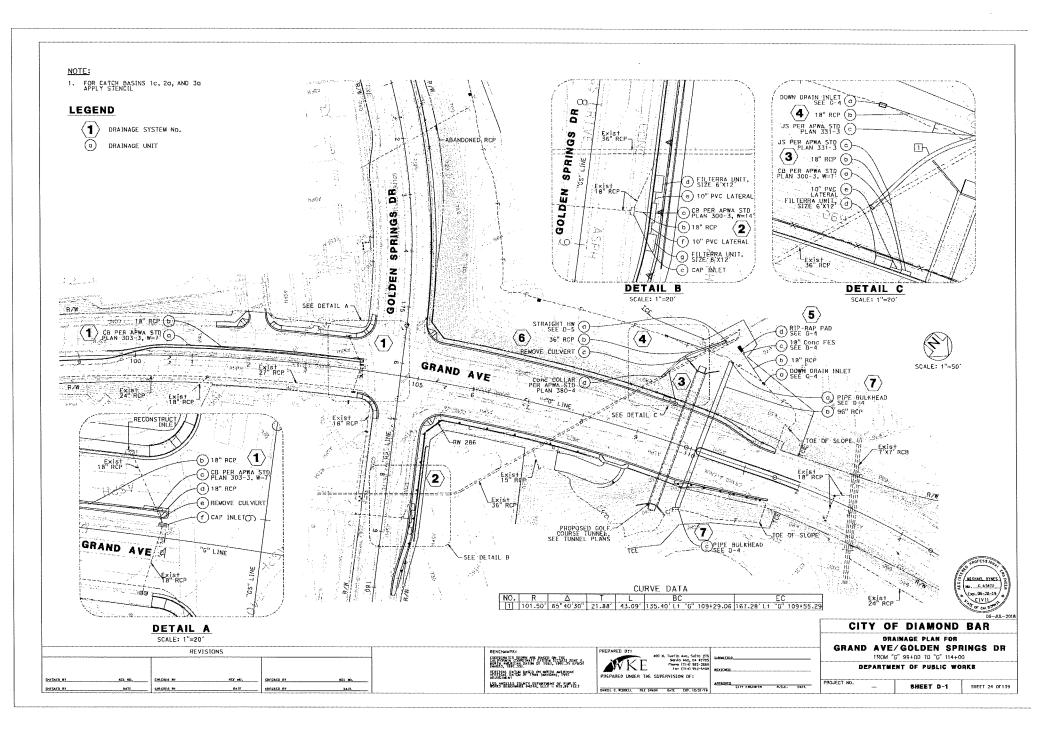


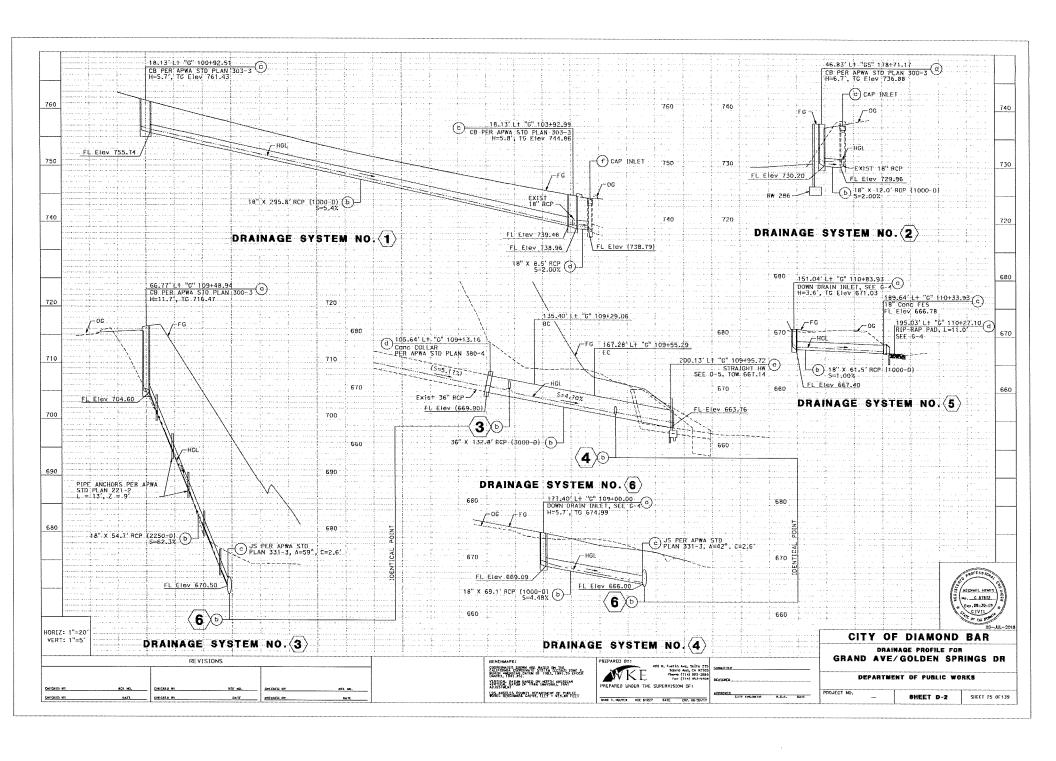


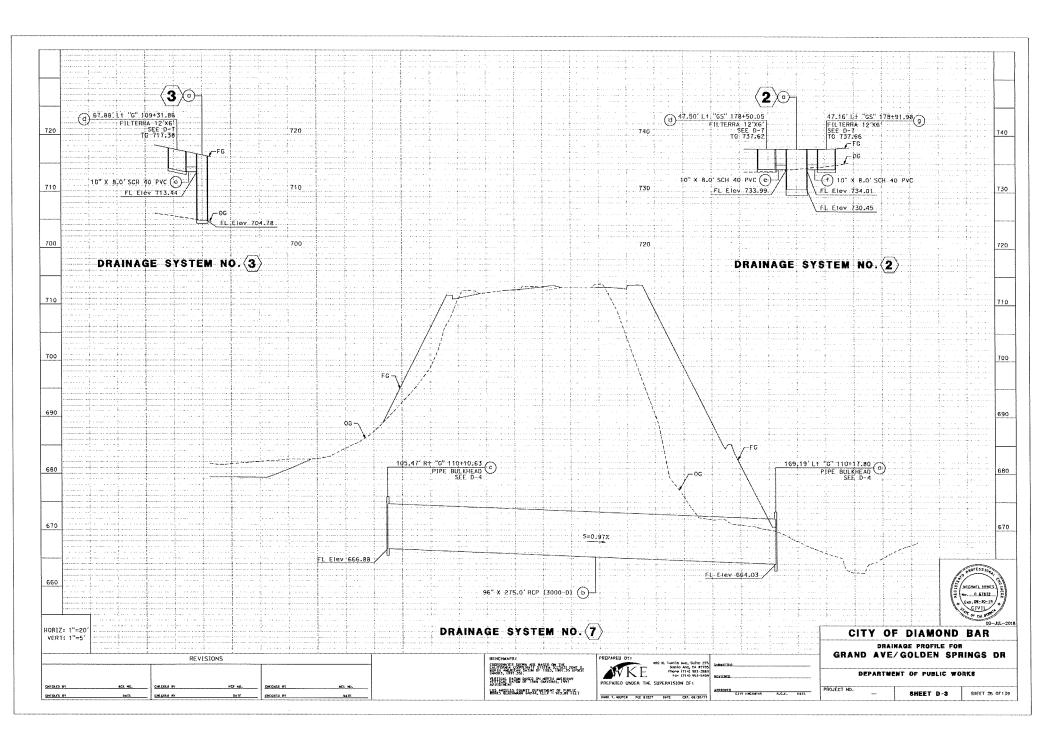


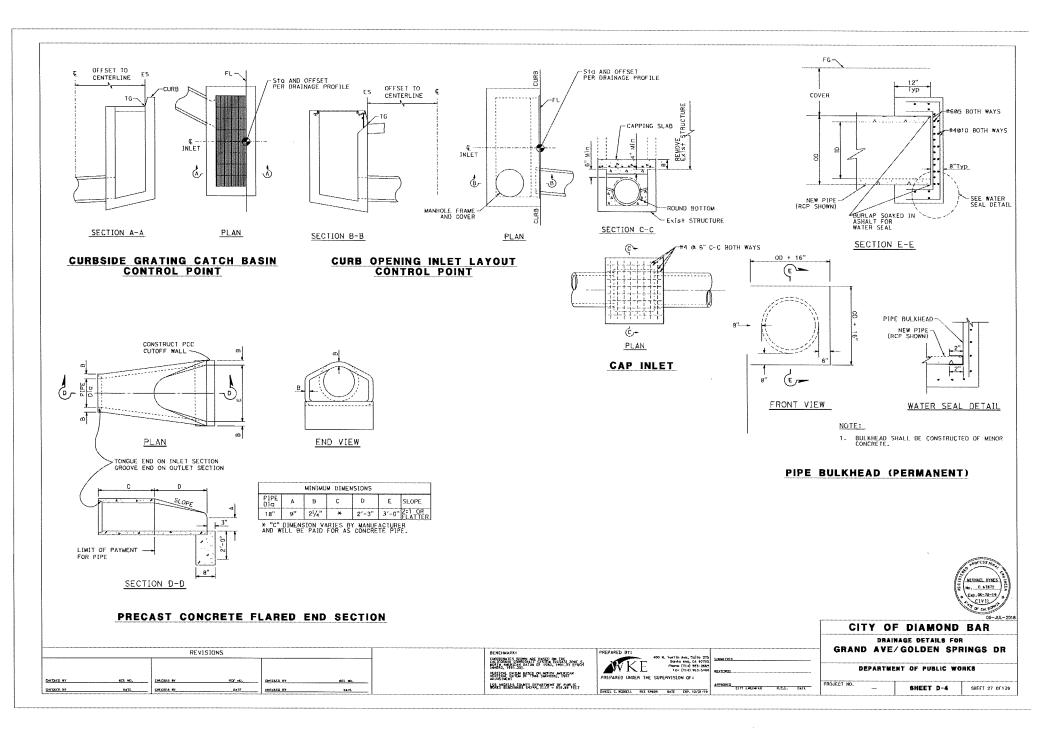


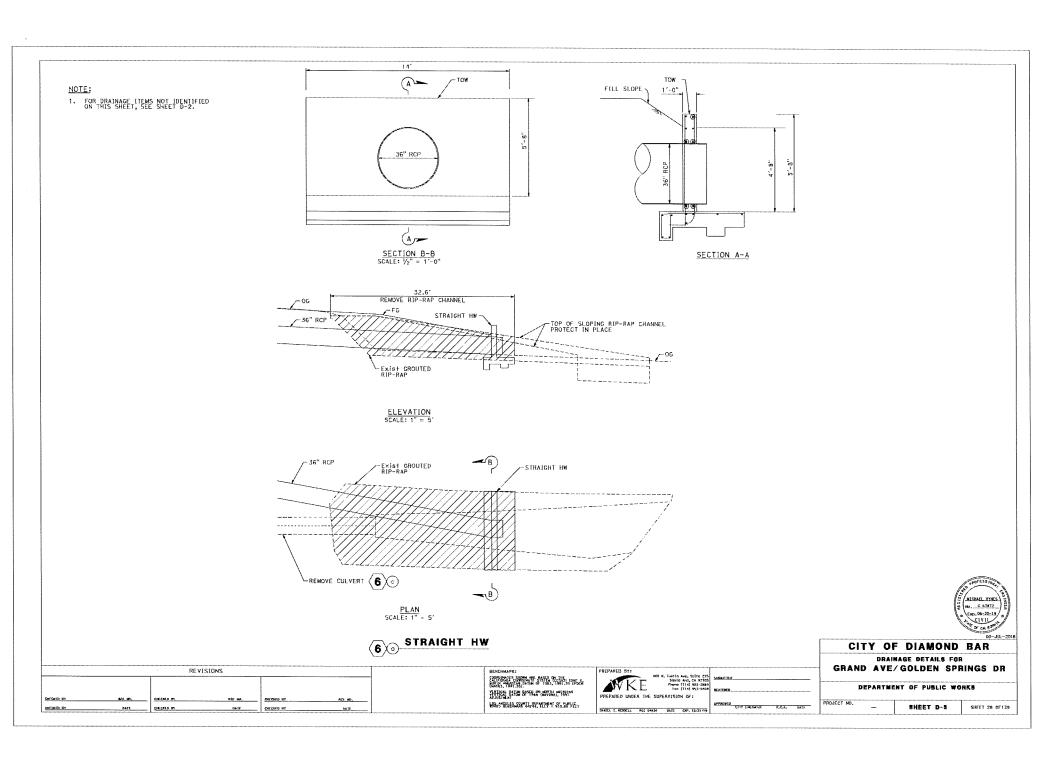


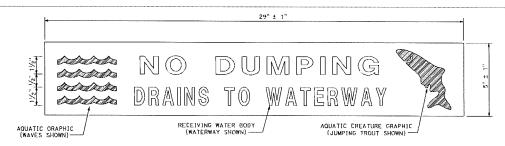






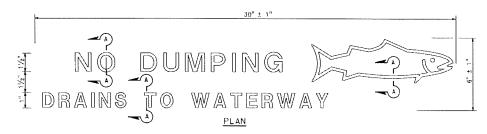






PLAN

# DRAINAGE INLET MARKER (PREFABRICATED THERMOPLASTIC)



# DRAINAGE INLET MARKER (STAMPED CONCRETE IMPRINT)

STRUCTURE ID	3e			
SYSTEM TREATMENT CAPACITY	0.1667	0.1667		
WATER QUALITY FLOR RATE (	0.1667			
PEAK FLOW RATE (CFS/I/S)	0.1652			
RETURN PERIOD OF PEAK FLO	50	50		
REQUIRED MEDIA INFILTRATIO	100 (IN/HR)			
PIPE DATA	I.E.	MATERIAL	DIAMETER	
OUTLET PIPE	713.44'	SCH 40 PVC	10"	
OUTLET PIPE  CURB OPENING ORIENTATION	713.44′	SCH 40 PVC	10"	
	I		10"	
CURB OPENING ORIENTATION  TOP OF CURB OPENING ELEVA  ANTI-FLOATING BALLAST	I	PARALLEL		
CURB OPENING ORJENTATION TOP OF CURB OPENING ELEVA	ATION	PARALLEL 717.38'		

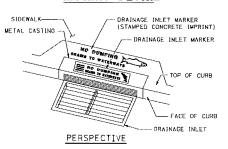
IF REQUIRED		N/A	
ANTI-FLOATING BALLAST	WIDTH	HEIGHT	
TOP OF CURB OPENING ELEVA	737.62'		
CURB OPENING ORIENTATION		PARALLEL	
OUTLET PIPE	733.99′	SCH 40 PVC	10"
PIPE DATA	I.E.	MATERIAL	DIAMETE
REQUIRED MEDIA INFILTRATIO	100 (IN/HR)		
RETURN PERIOD OF PEAK FLO	50		
PEAK FLOW RATE (CFS/1/5)	0.0795		
WATER QUALITY FLOR RATE (	0.1667		
SYSTEM TREATMENT CAPACITY	(CFS/ 1/S)	0.1667	
STRUCTURE ID	2d		

IF REQUIRED	N/A	N/A	
ANTI-FLOATING BALLAST	WIDTH	HEI	GHT
TOP OF CURB OPENING ELEVA	737.66′		
CURB OPENING OR[ENTAT]ON	PARALLEL		
OUTLET PIPE	734.01′	SCH 40 PV	10"
PIPE DATA	1.E.	MATERIAL	DIAMETE
REQUIRED MEDIA INFILTRATIO	100 (IN/HR)		
RETURN PERIOD OF PEAK FLO	50		
PEAK FLOW RATE (CFS/1/S)	0.166.	3	
WATER QUALITY FLOR RATE (	0.166	7	
SYSTEM TREATMENT CAPACITY	0.166	7	
STRUCTURE ID	?g		

# SURFACE OF 0.250" 0.0625" 0.0625"

SECTION A-A

# STAMPED CONCRETE IMPRINT DETAIL



# DRAINAGE INLET MARKER ON DRAINAGE INLET



SHEET 20 OF139

FILTERRA	SITE	SPECIFIC	DATA	REQUIREMENTS
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REVISIONS							
SHESHID BY	ACE NO.	CHECKES IN	KCP MD.	DHICKEN NY	ACL 40.		
OHFORTD BY	BATE.	EMECKES BY	Daty	CHICKED NY	3475		

FOR THE PART OF AS A STATE OF THE PART OF

_	PREPARED BY:	
	460 M. Tuntin Ave. Salte 275 Sonia Ang. ca 27705	Scriptitus
	More (114) 953-2585 for (114) 953-5408	KOJONE
	PREPARED UNDER THE SUPERVISION OF:	APPROYED CITY ENGINEER R.C.F. UK
_	DANEEL S. WEDGELL MEE SMASH DATE EXP. 12/31/19	CIT FROM IN BLUE.

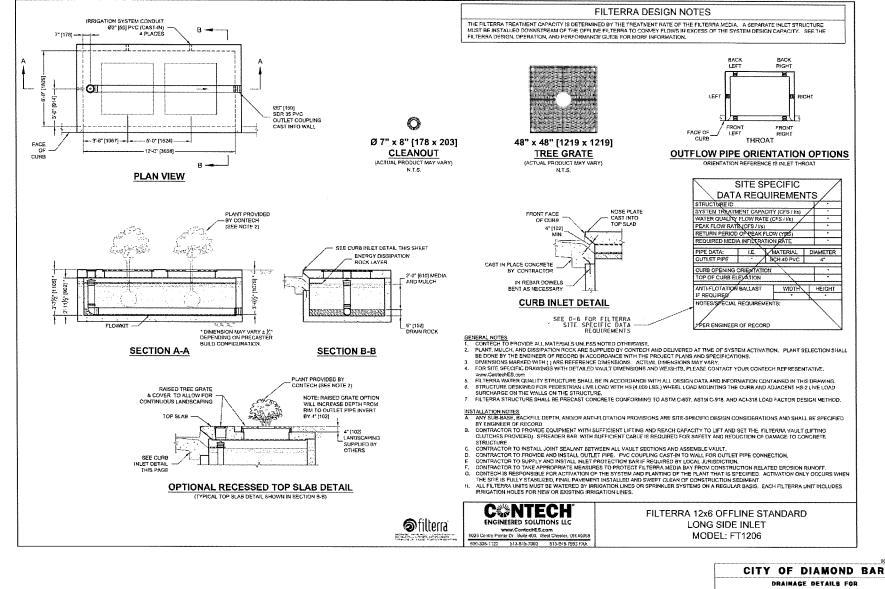
CITY OF DIAMOND BAR

DRAIMAGE DETAILS FOR

GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

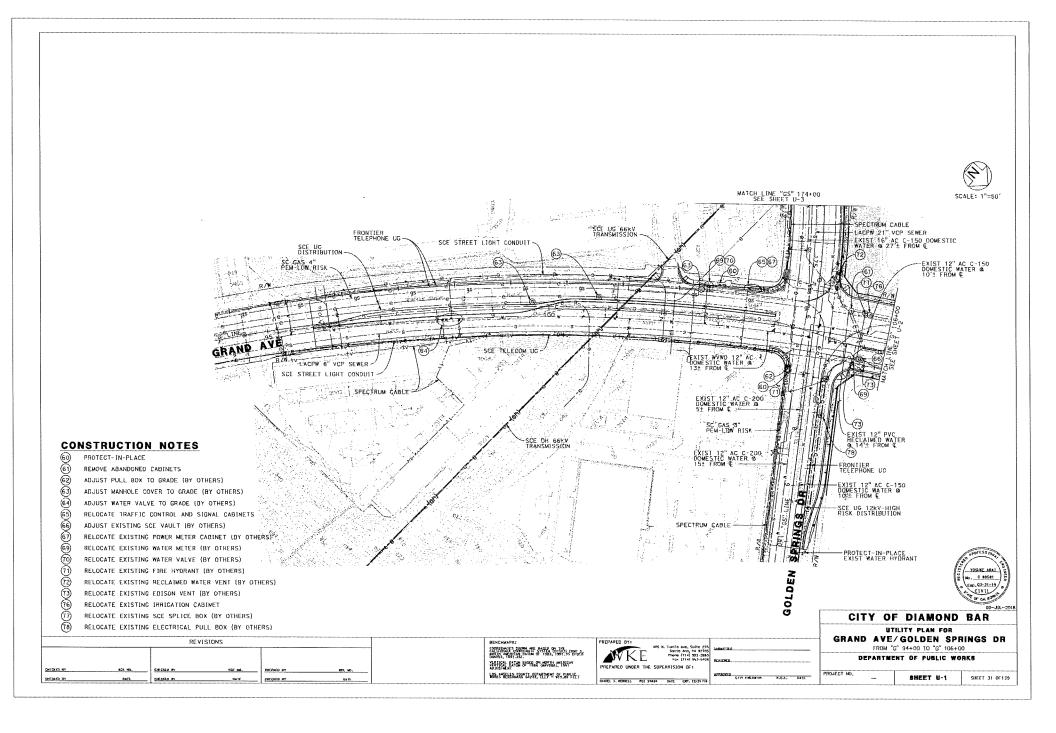
SHEET D-8

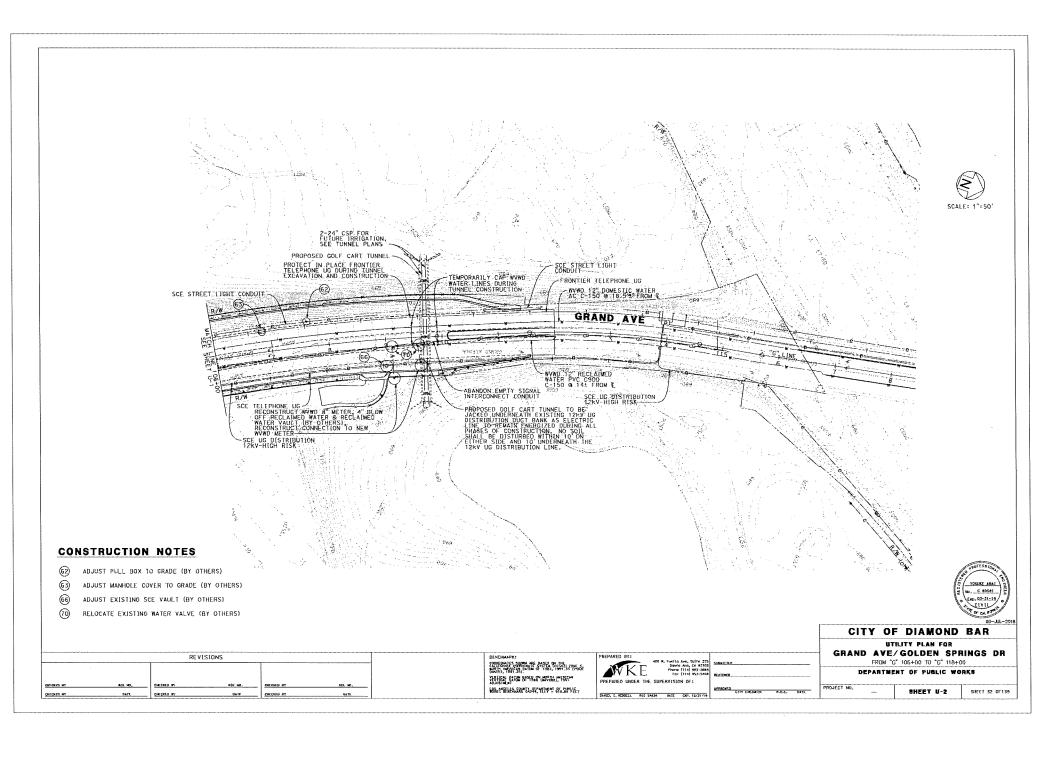


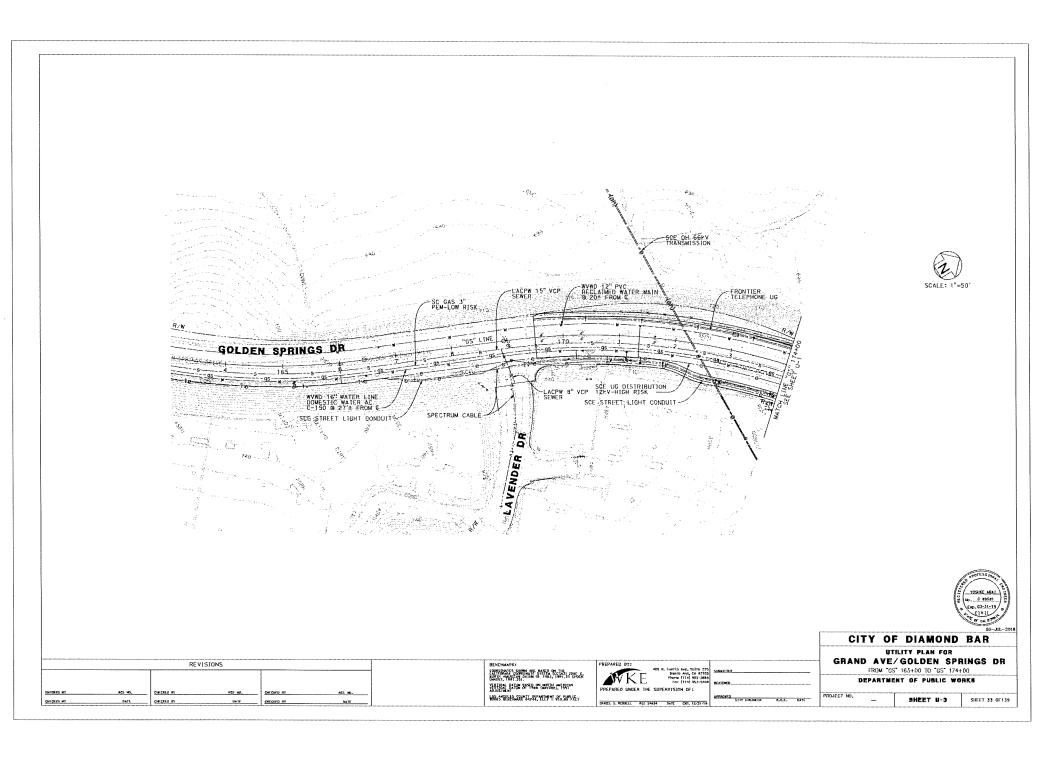
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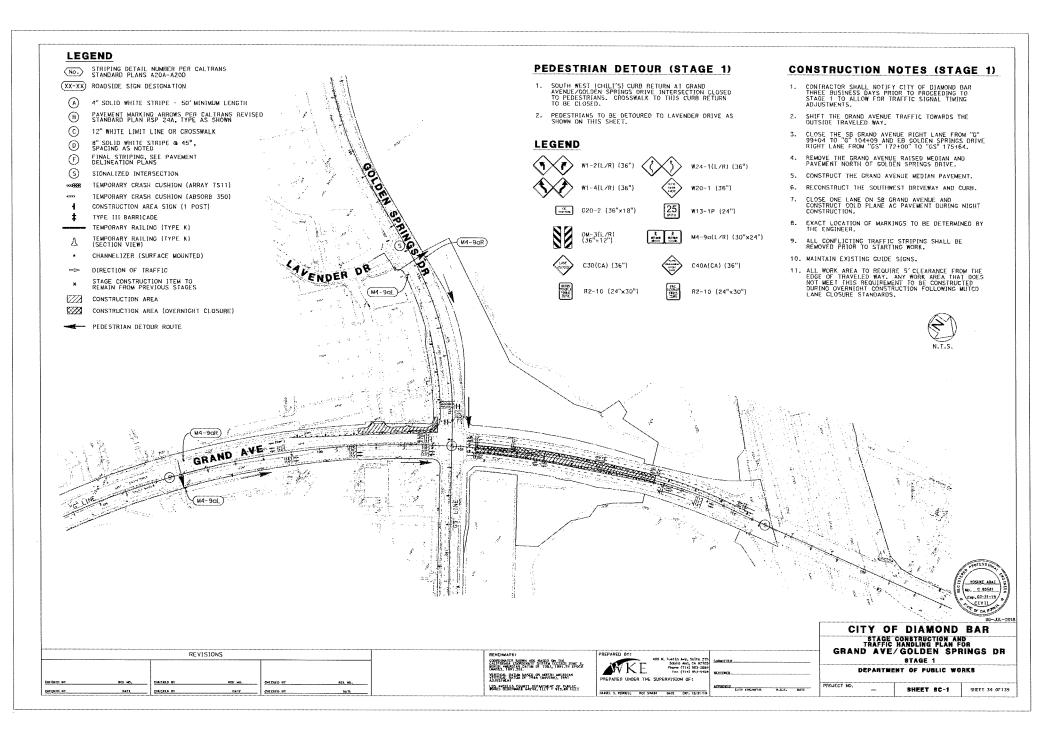
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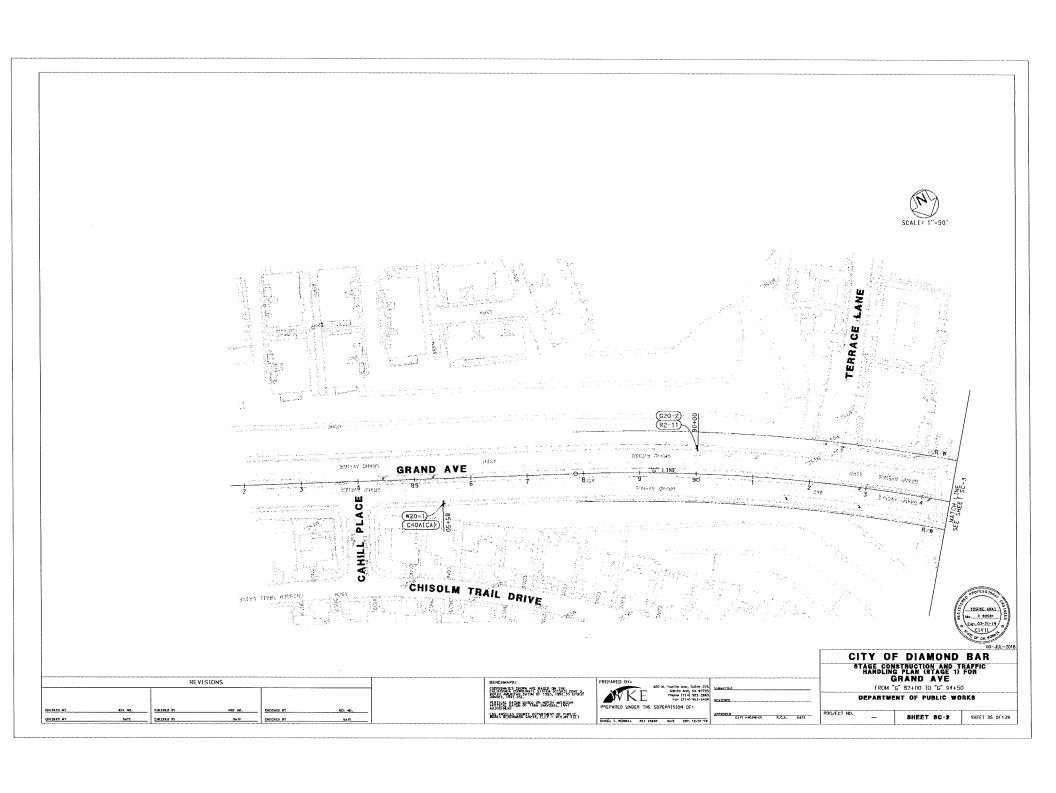
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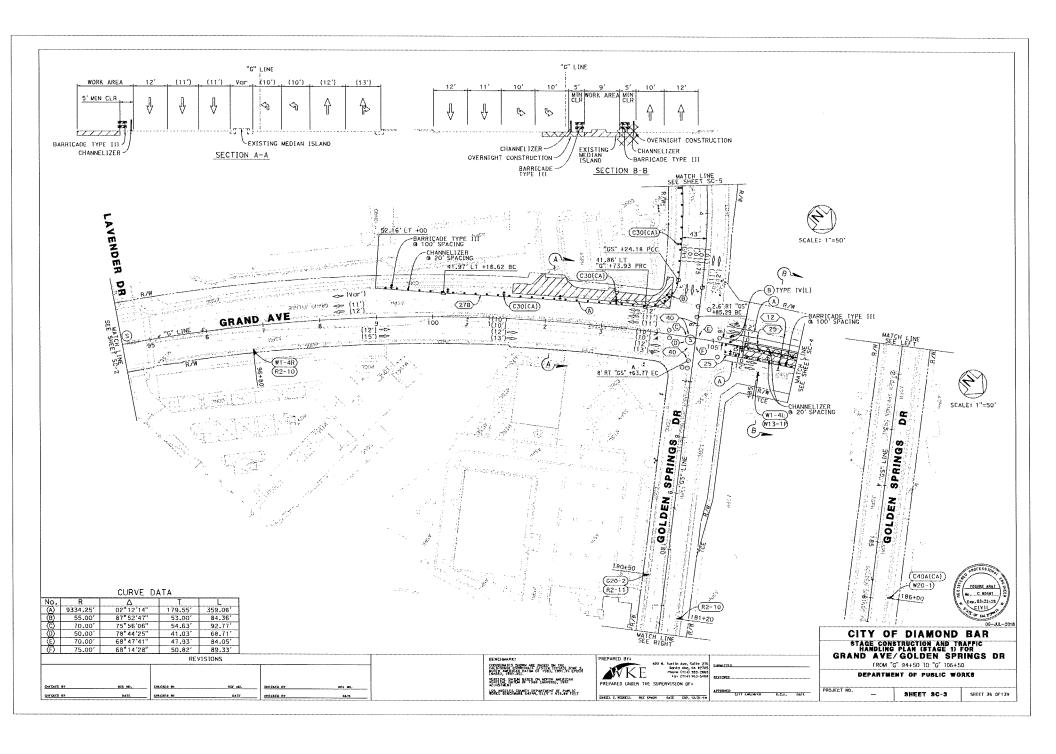


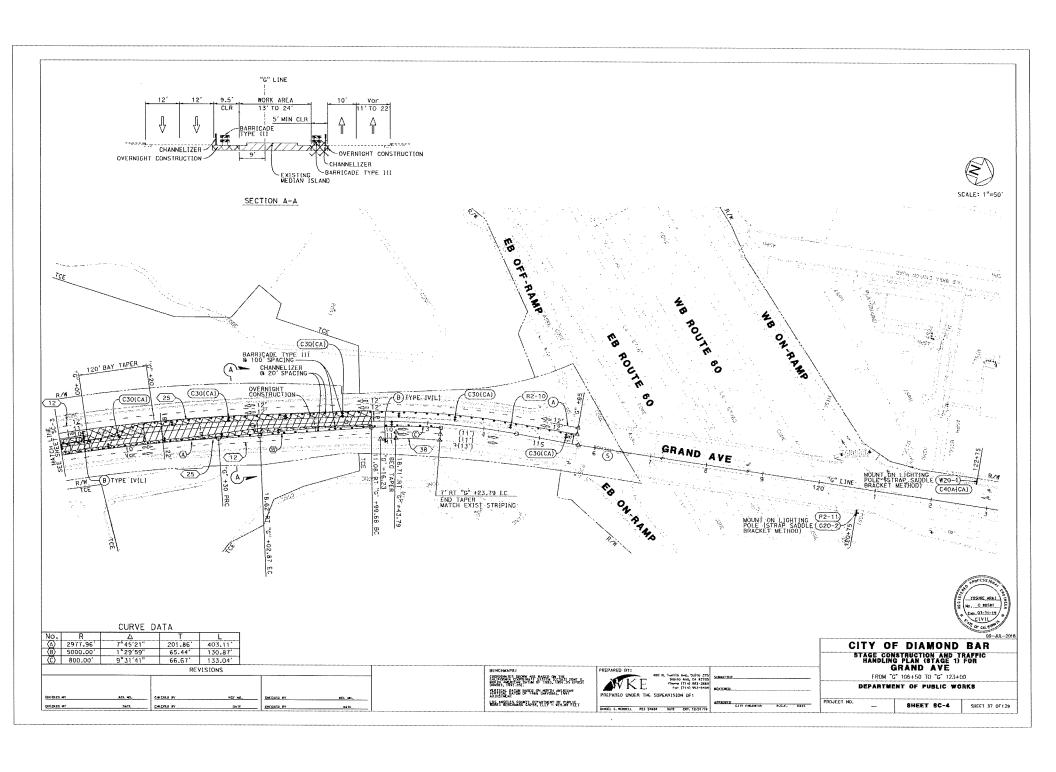


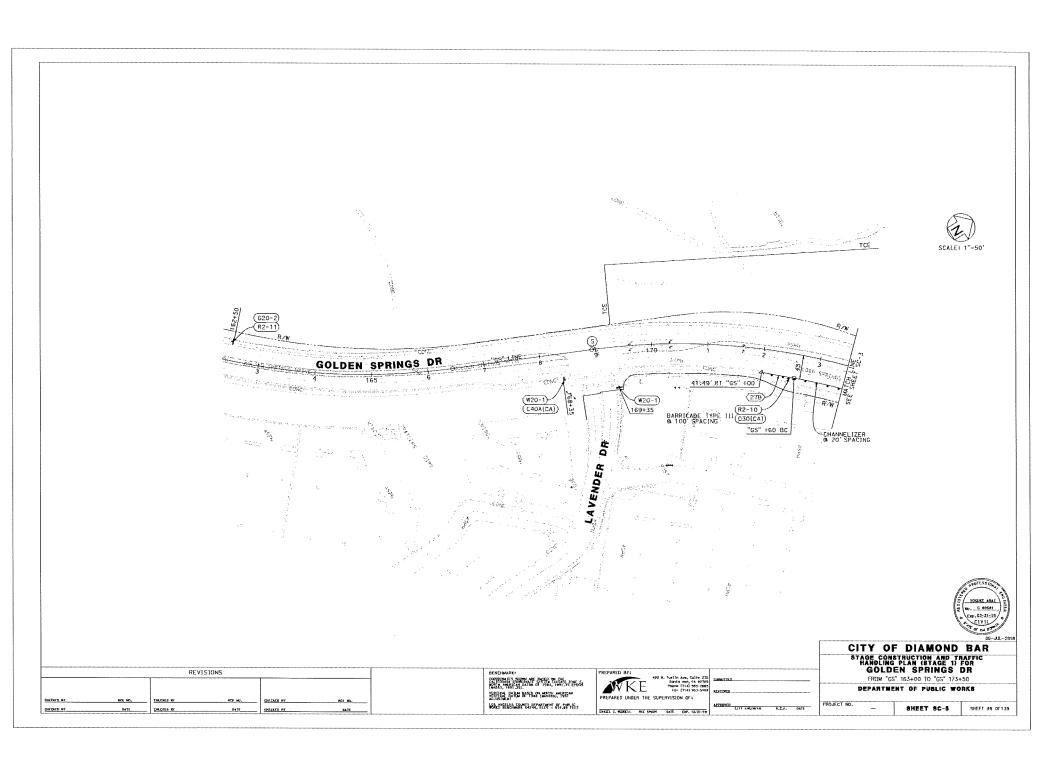


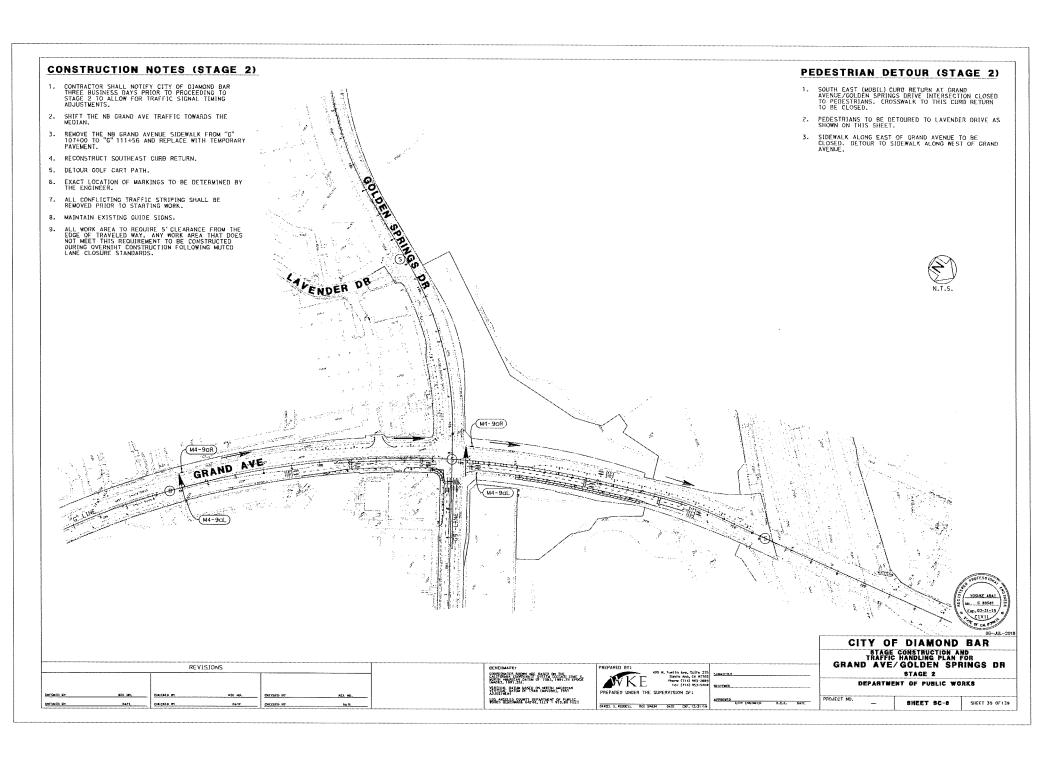


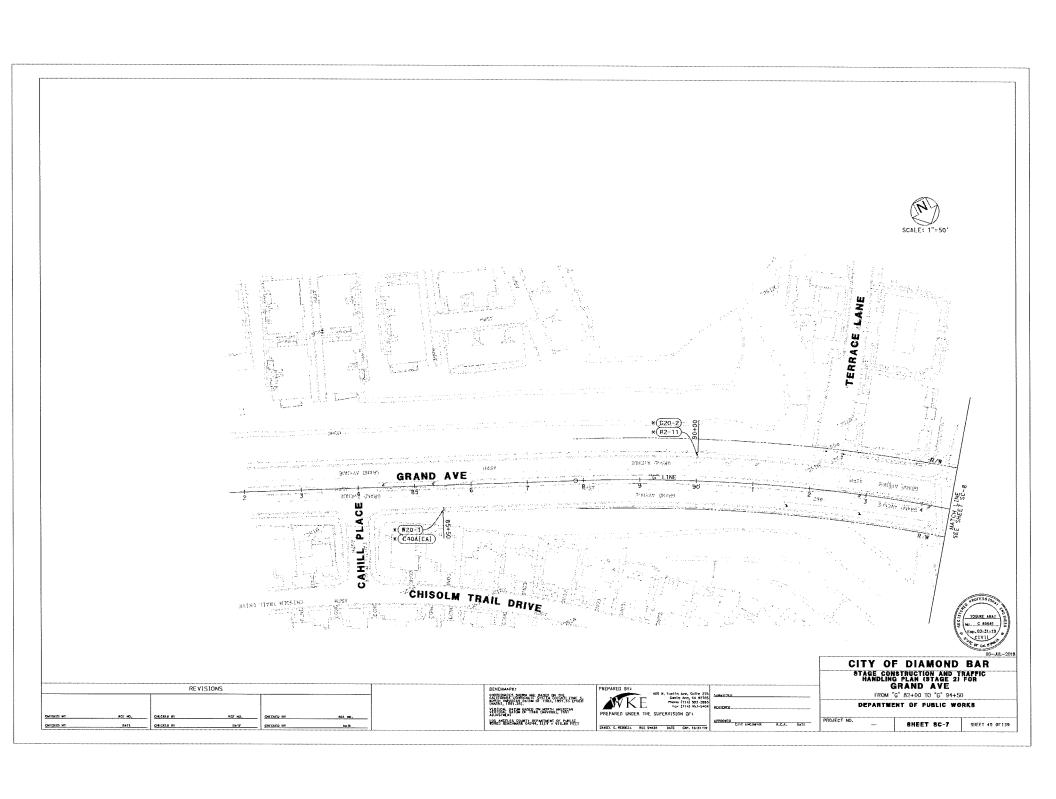


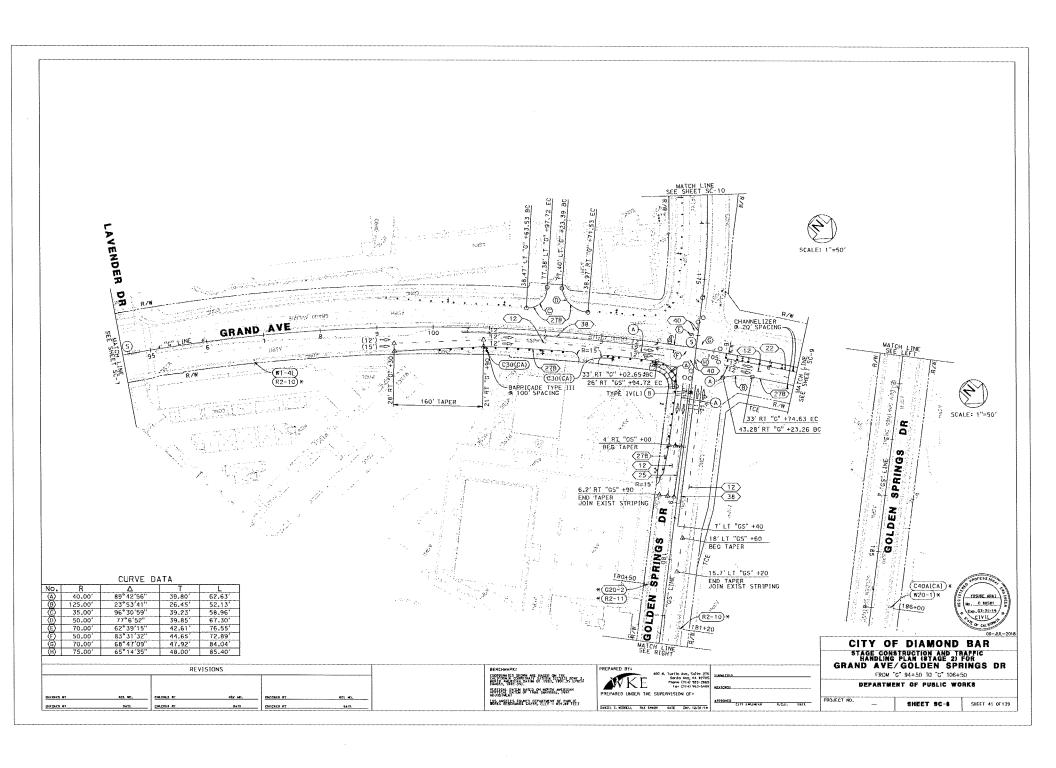


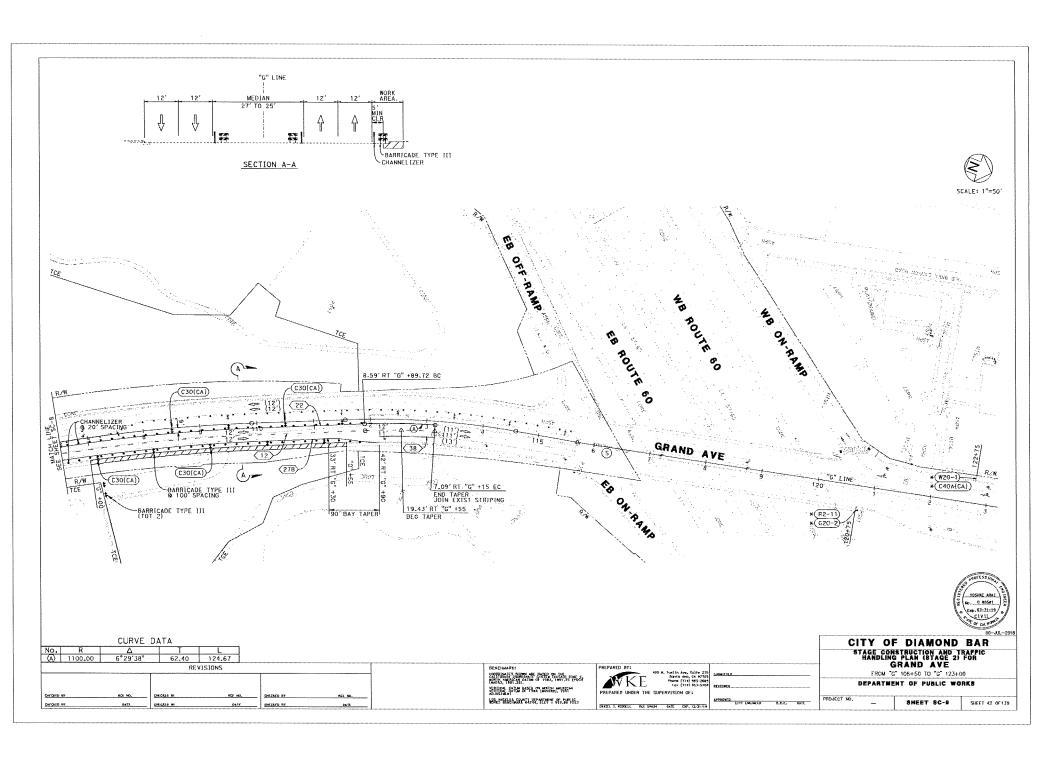


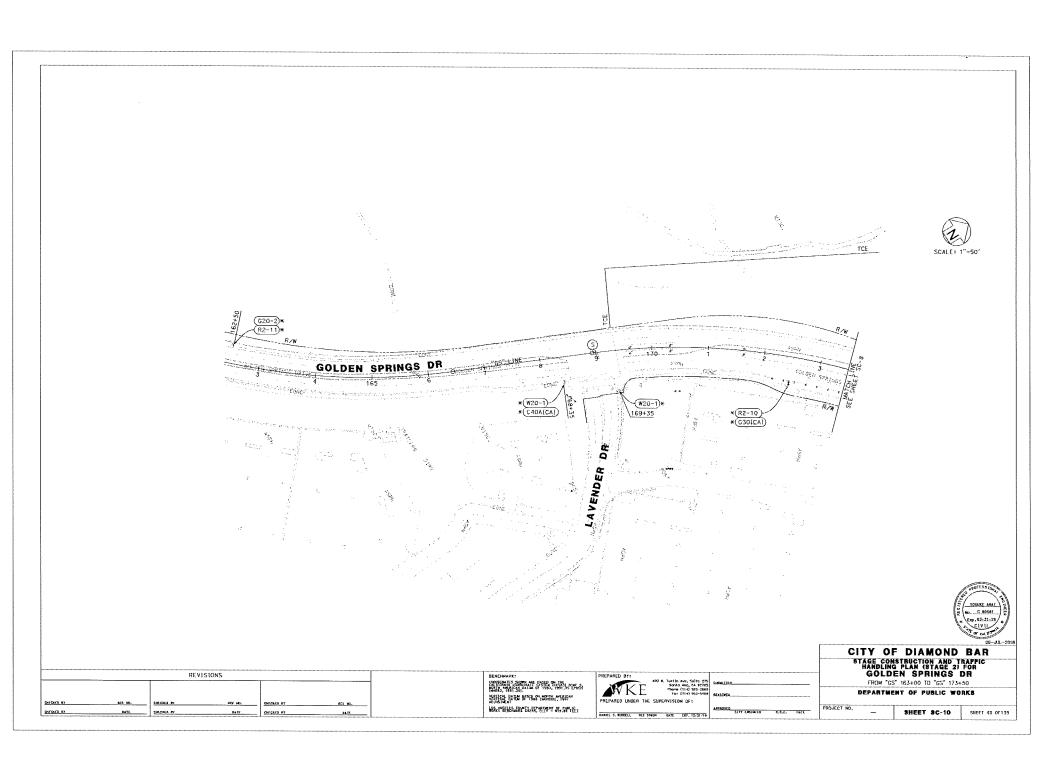


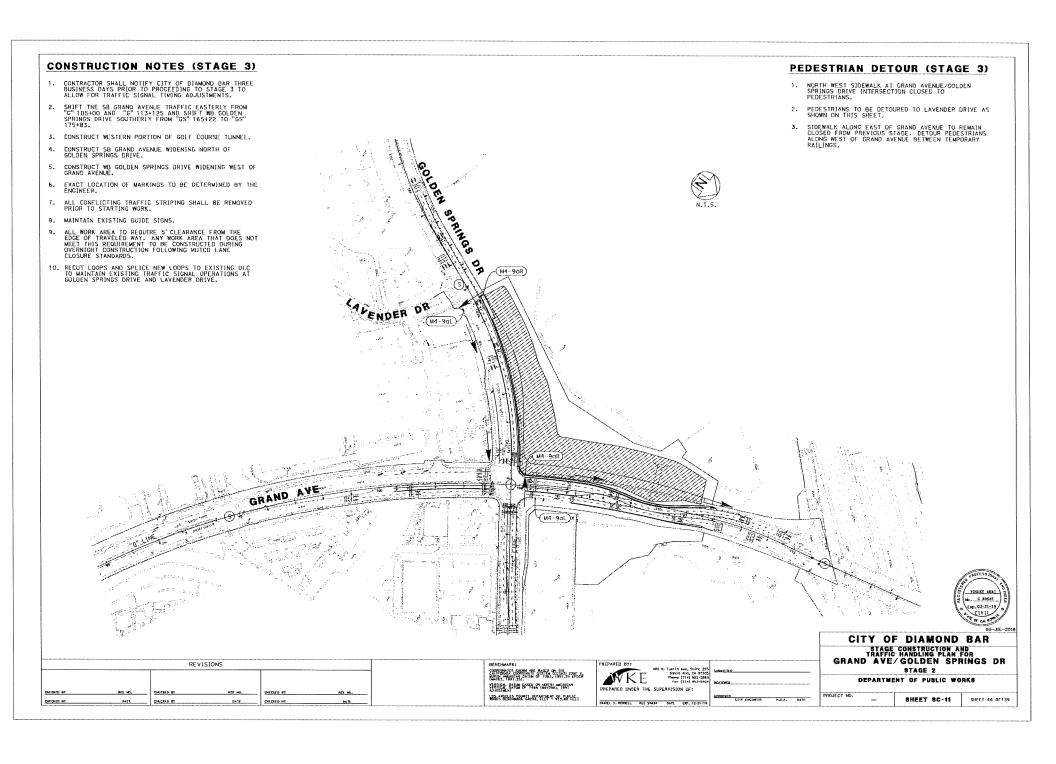


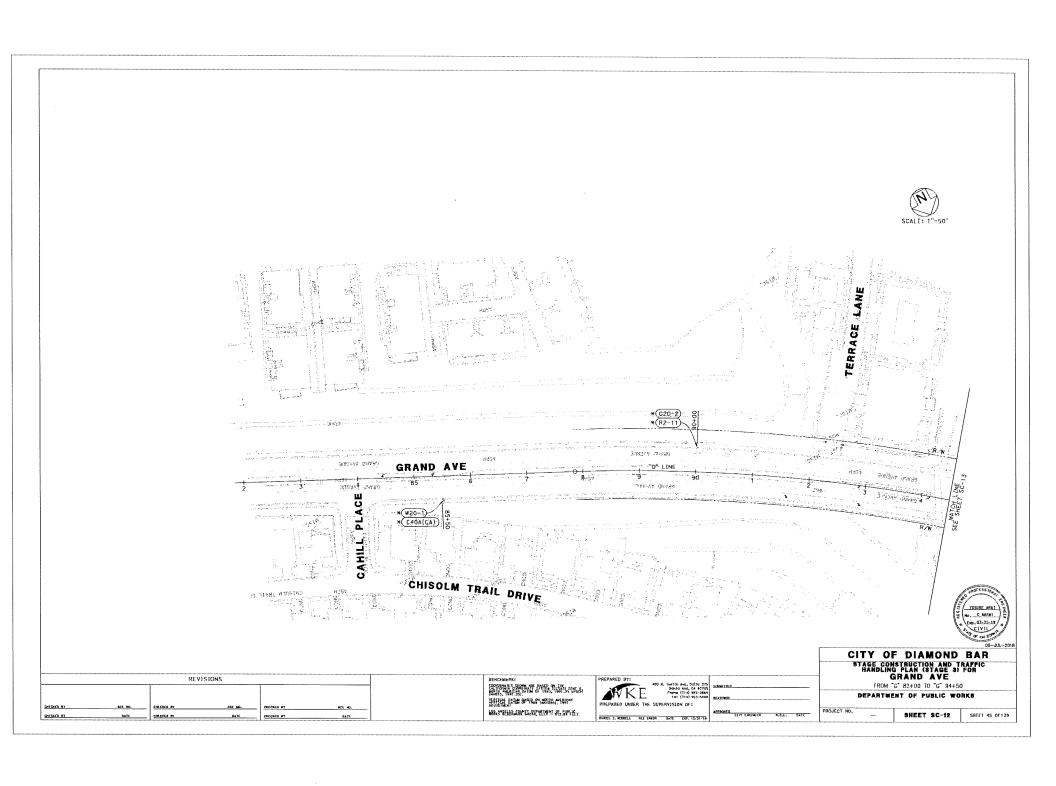


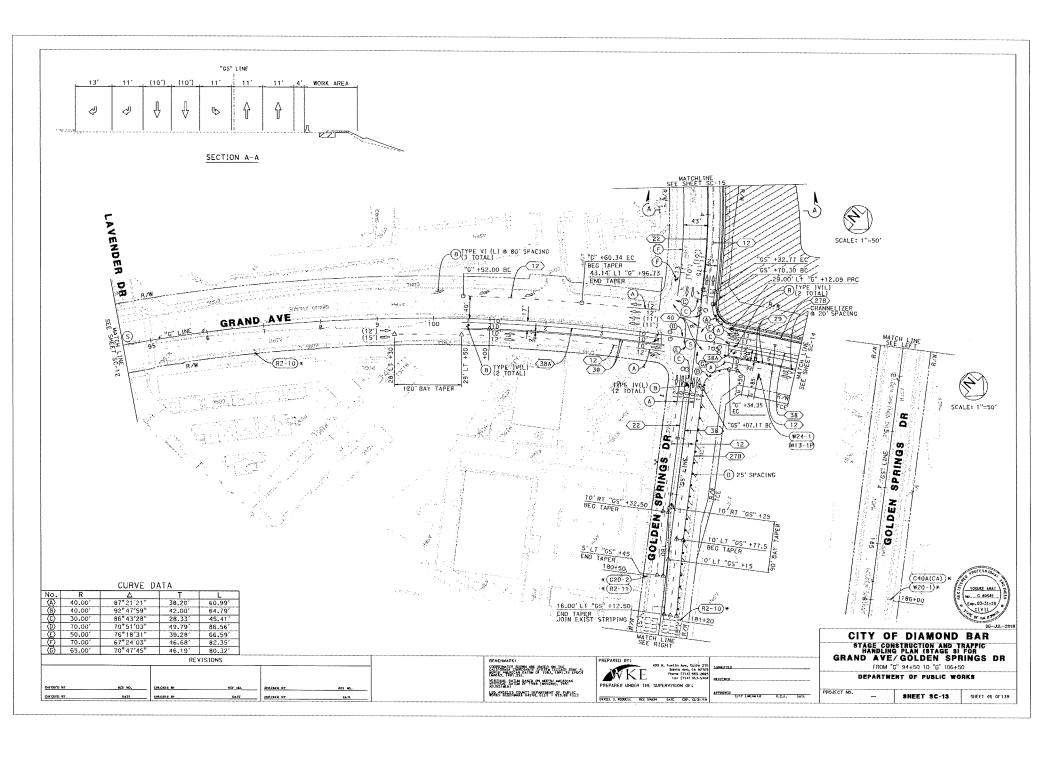


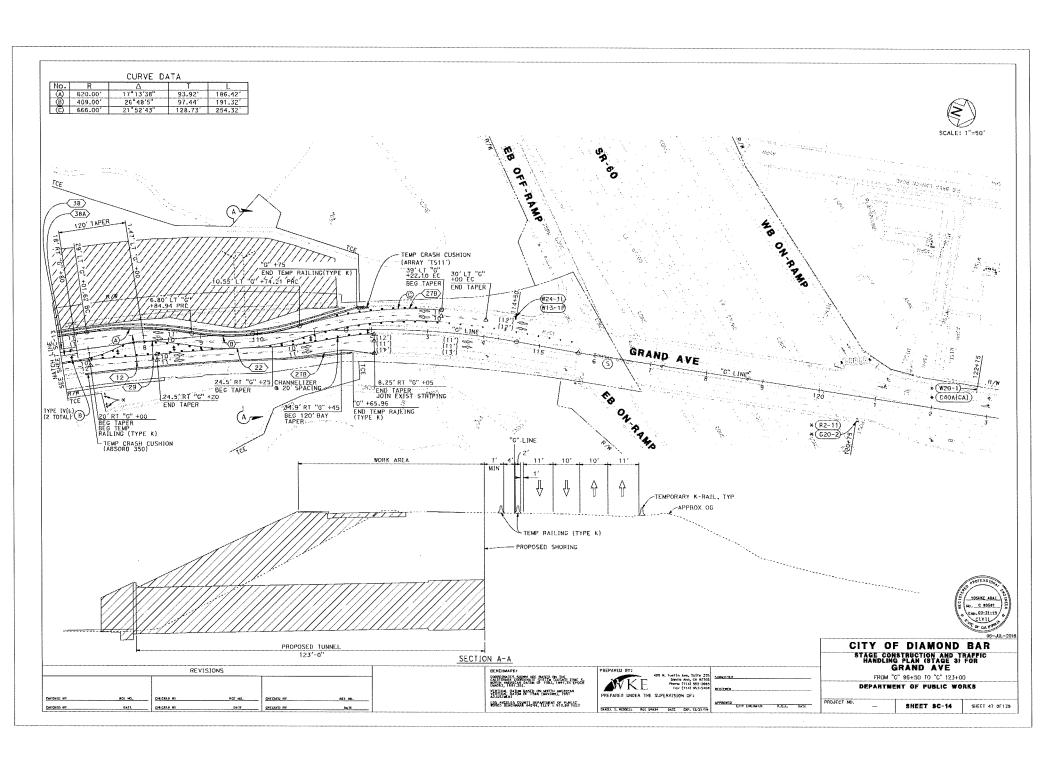


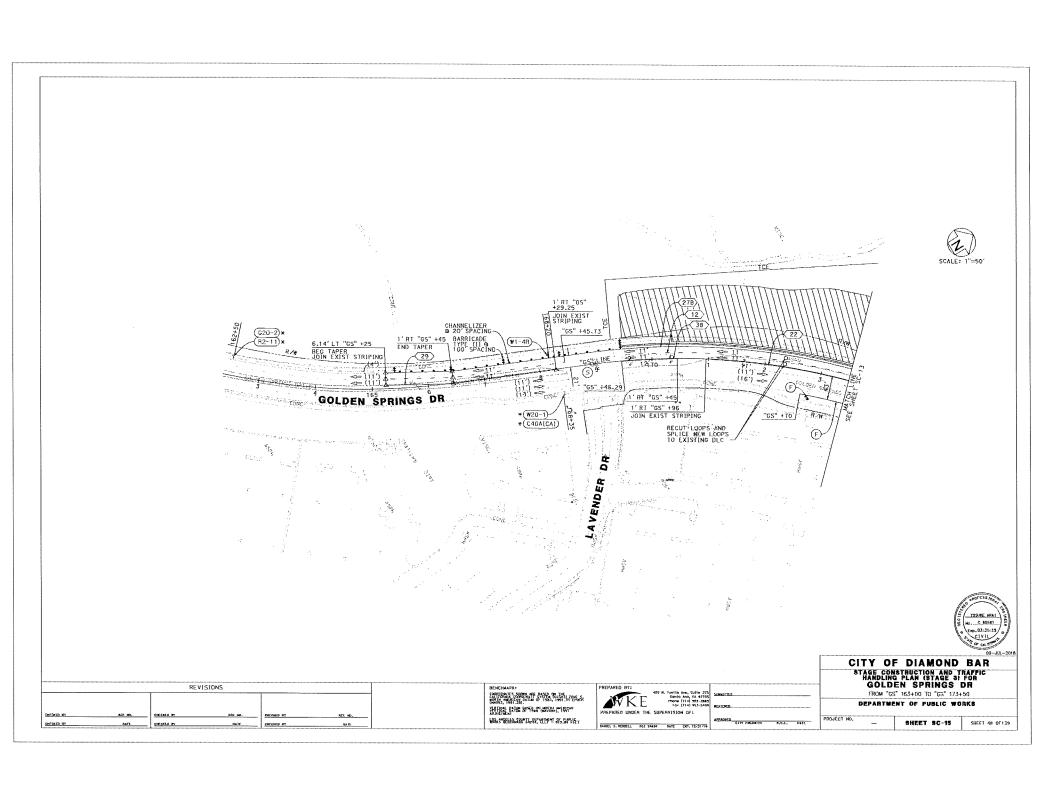


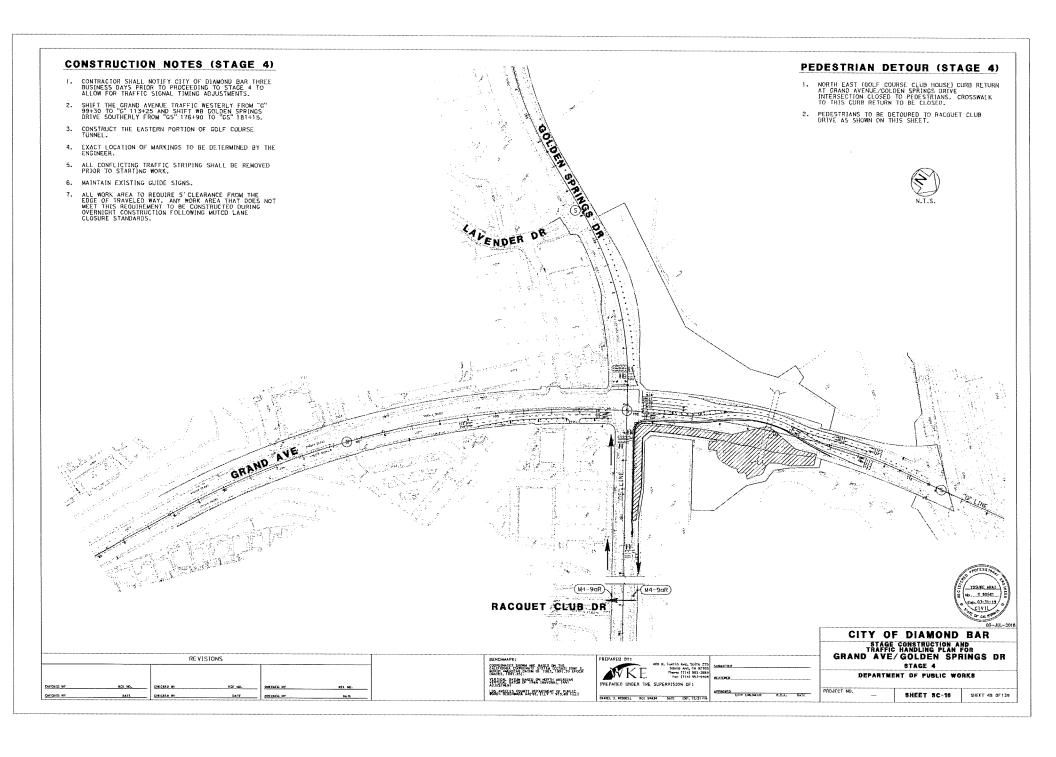


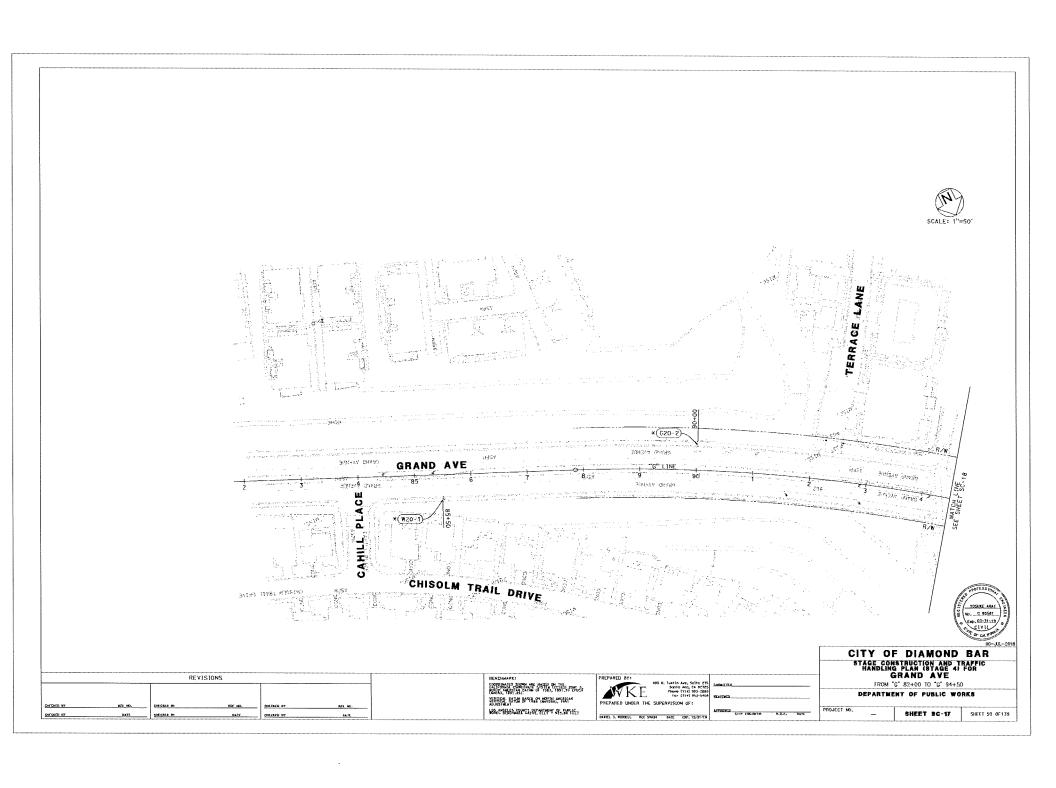


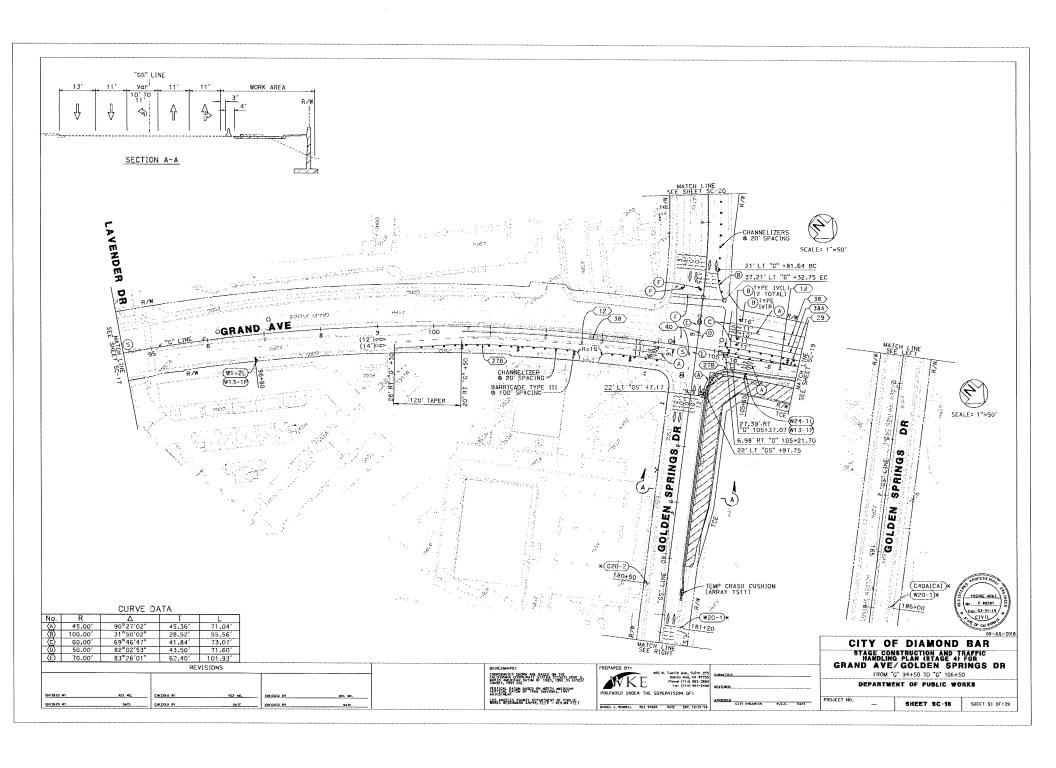


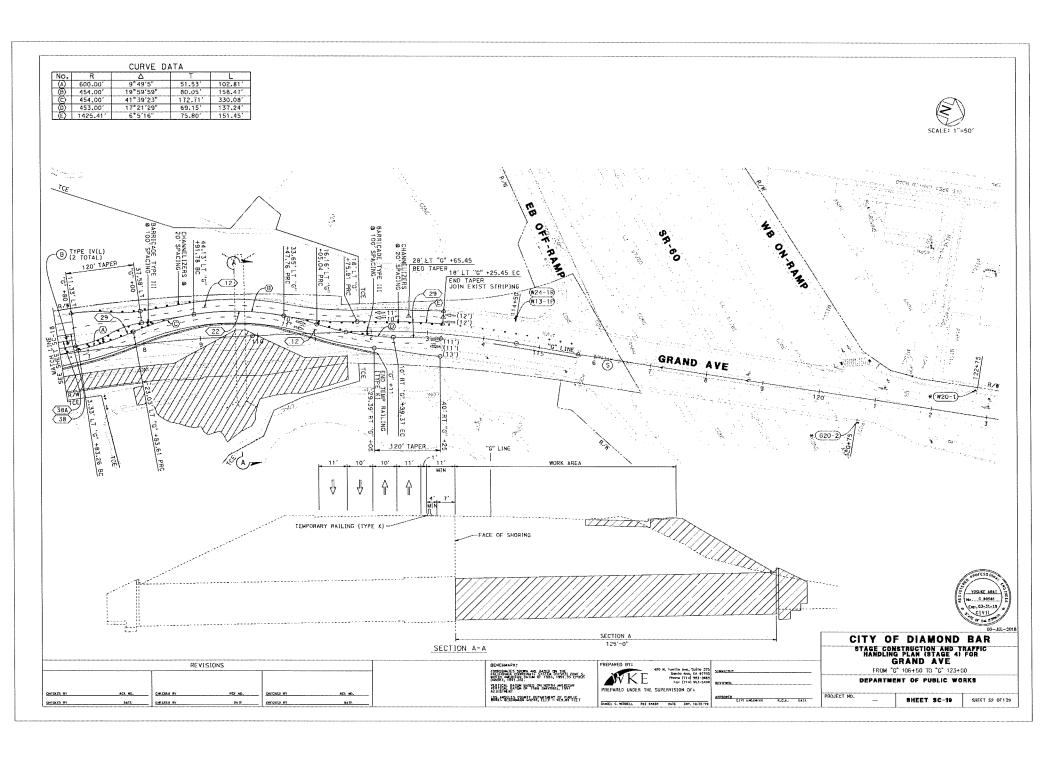


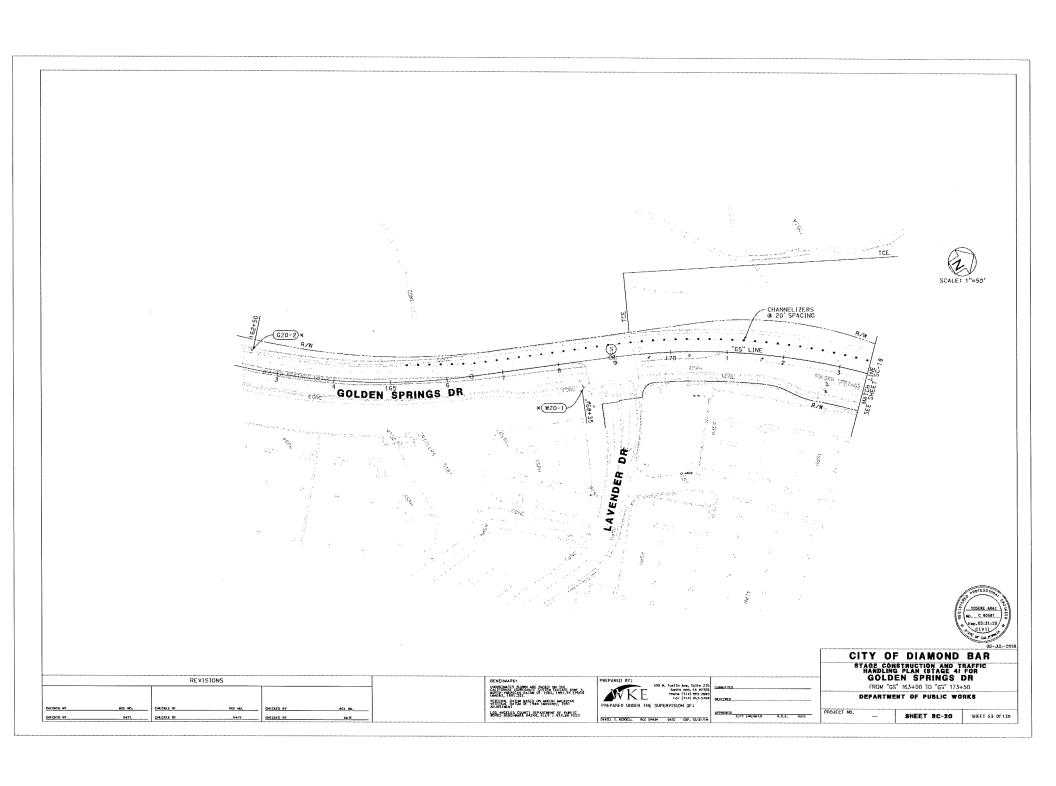


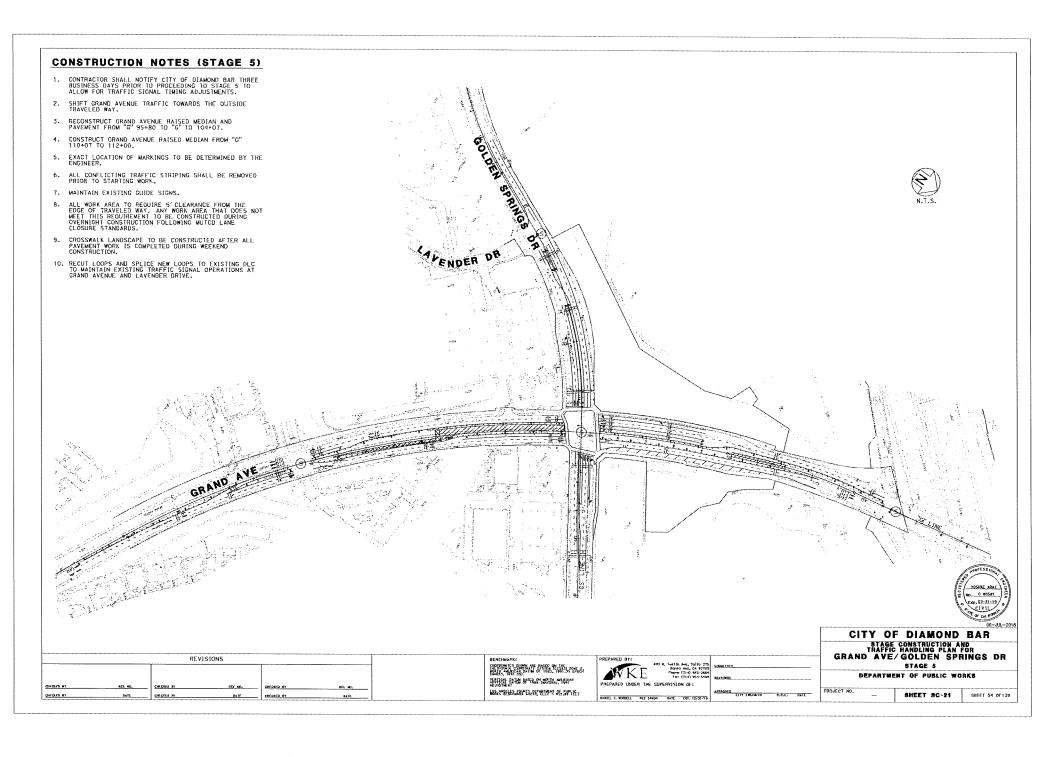


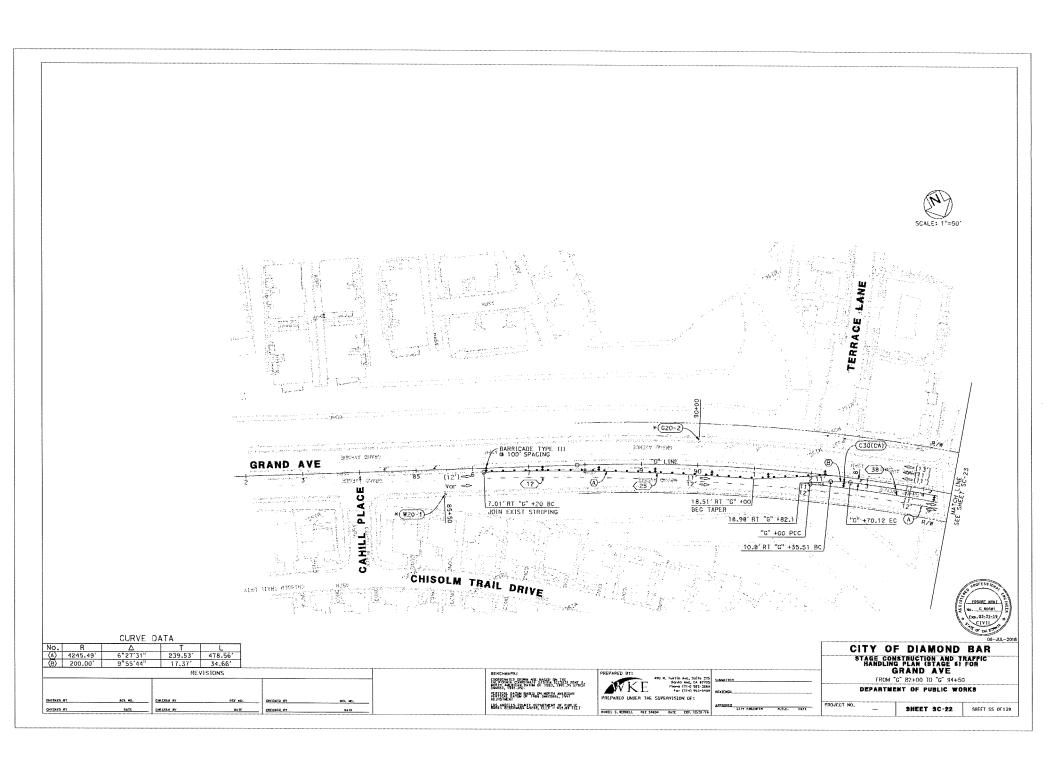


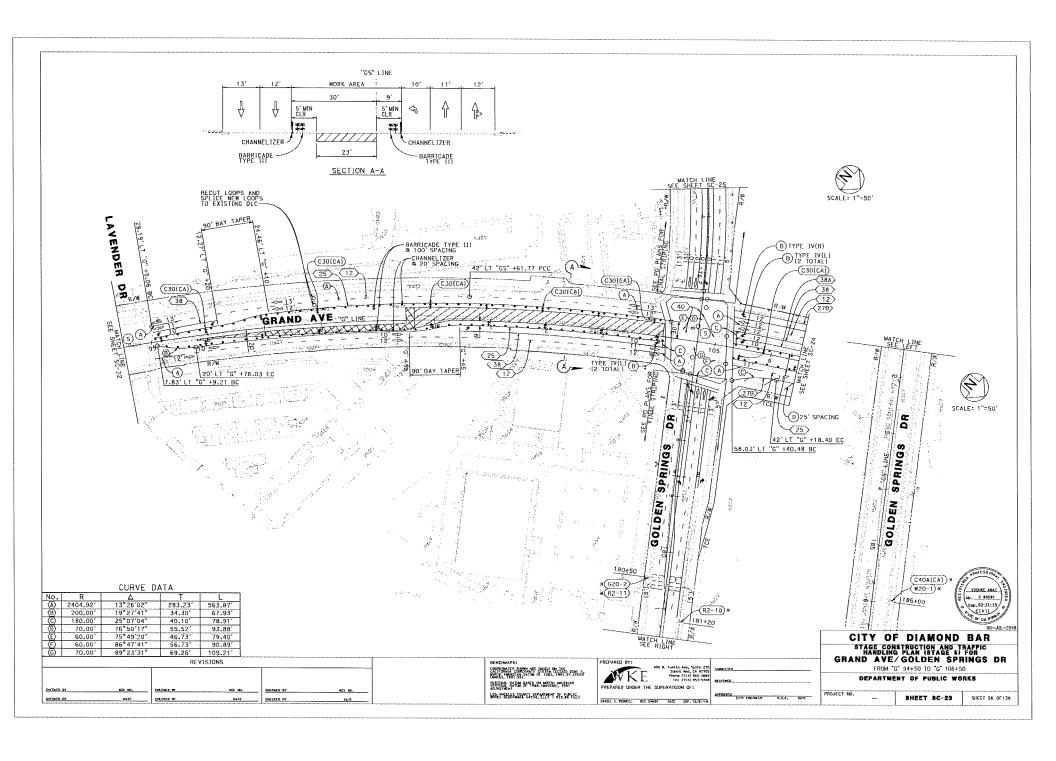


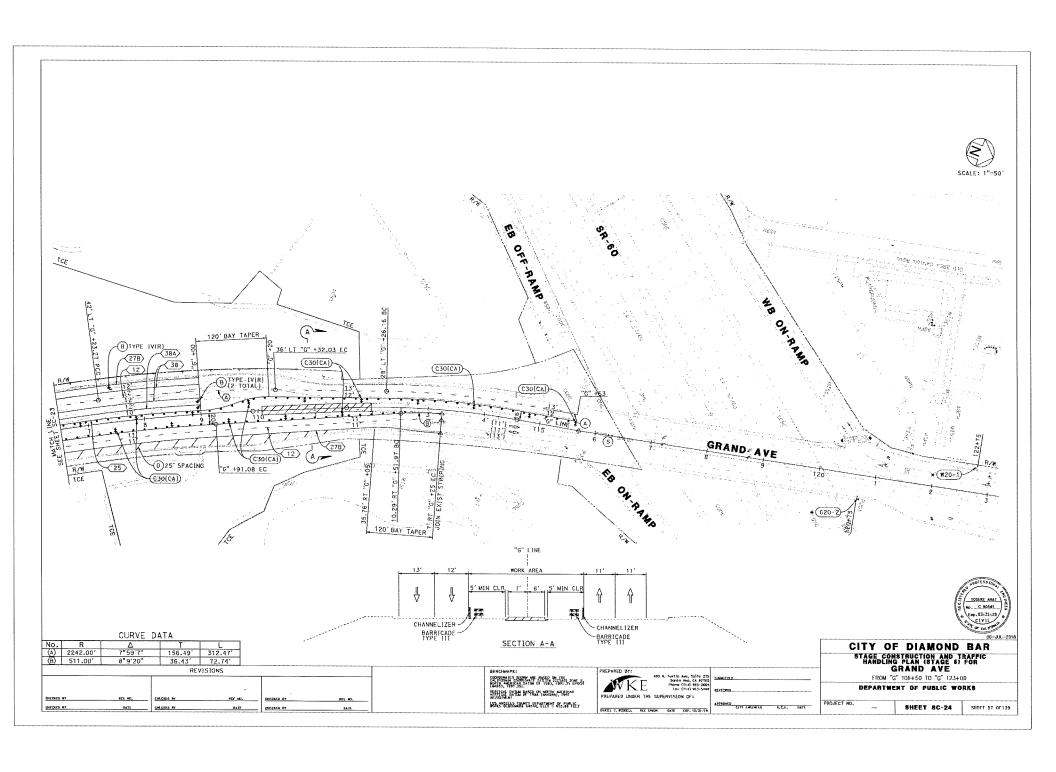


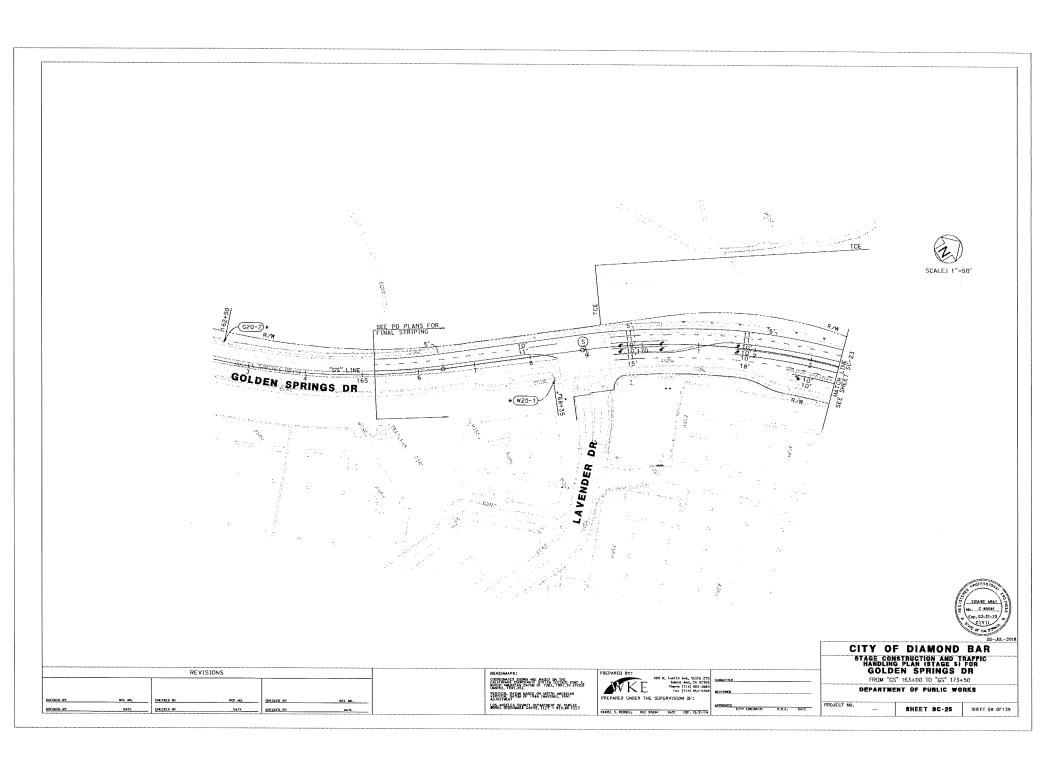










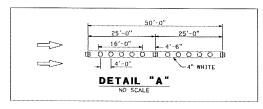


# NOTES

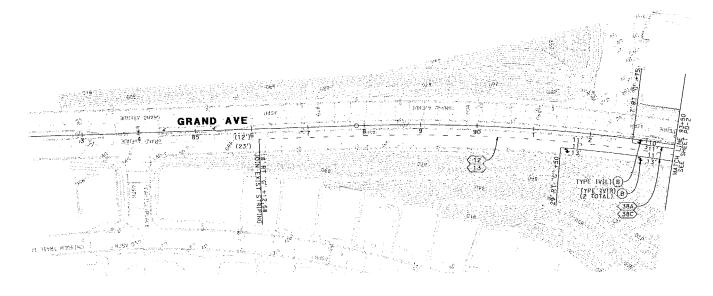
- 1. ALL PAVEMENT ARROWS, PAVEMENT MARKINGS, AND STRIPNG TO BE THERMOPLASTIC.
- 2. EXACT LOCATION OF MARKINGS TO BE DETERMINED BY THE ENGINEER.
- 3. ALL CONFLICTING TRAFFIC STRIPING TO BE REMOVED.

### LEGEND

- No. STRIPING DETAIL NUMBER PER CALTRANS STANDARD PLANS A20A THRU A20D, 4" WIDTH UNLESS NOTED OTHERWISE.
- A 4" SOLID WHITE STRIPE PER DETAIL "A" 50' MINIMUM LENGTH
- B PAYEMENT MARKING ARROWS PER CALLTRANS STANDARD PLAN A24. TYPE AS SHOWN
- C 12" WHITE LIMIT LINE OR CROSSWALK
- D 8" SOLID WHITE STRIPE @ 45°, SPACING AS NOTED
- (E) TAPER PER APWA STD PLAN 140-3









***************************************										
REVISIONS										
DHY DAYD BY MCE NO.	CHECKES BY HCF NO.	CHICAGO BY RCS, NO.								
CHECKED BY DATE	SHIGKER BY BATE	CHECKED BY BATE								

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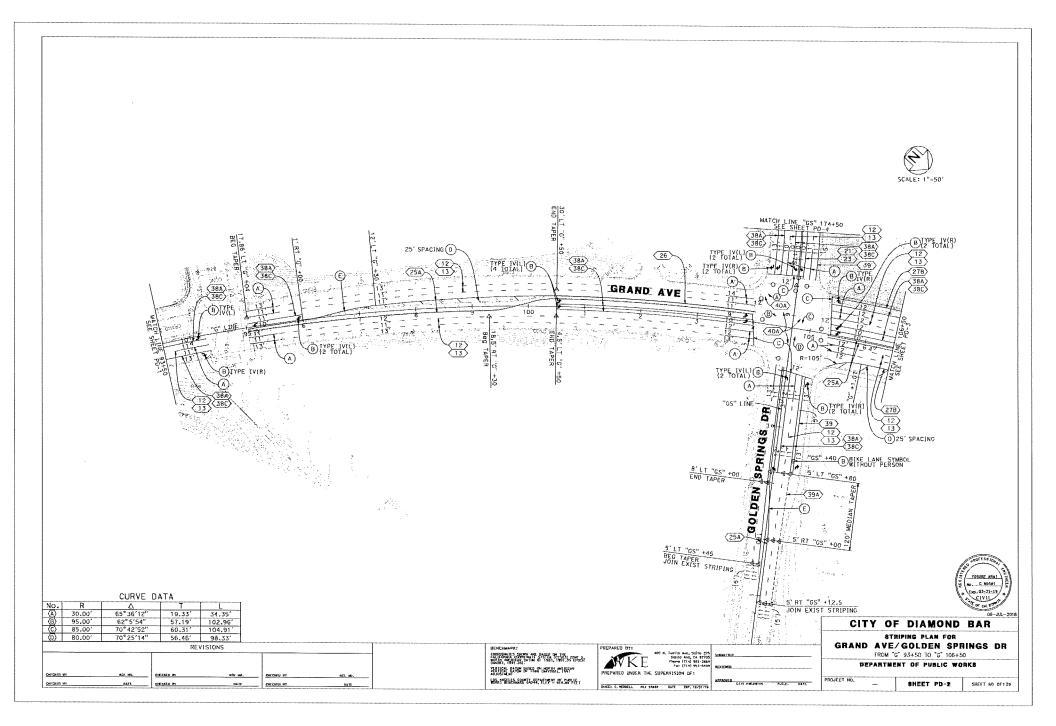
CITY OF DIAMOND BAR

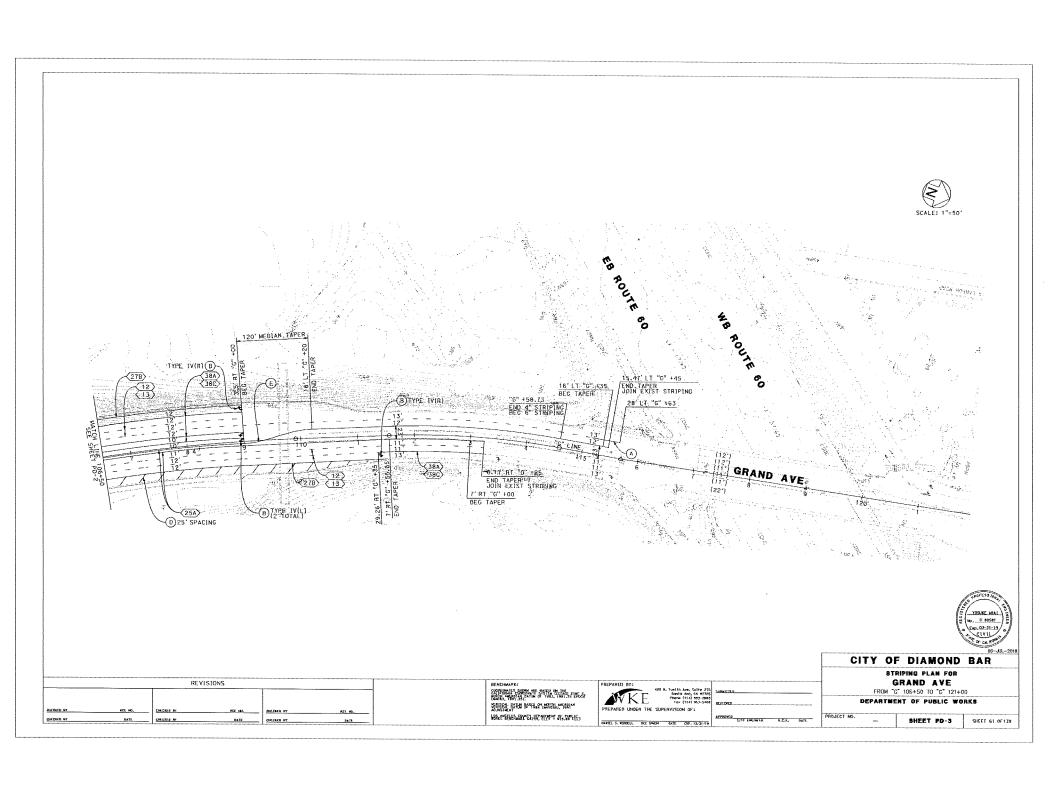
STRIPING PLAN FOR

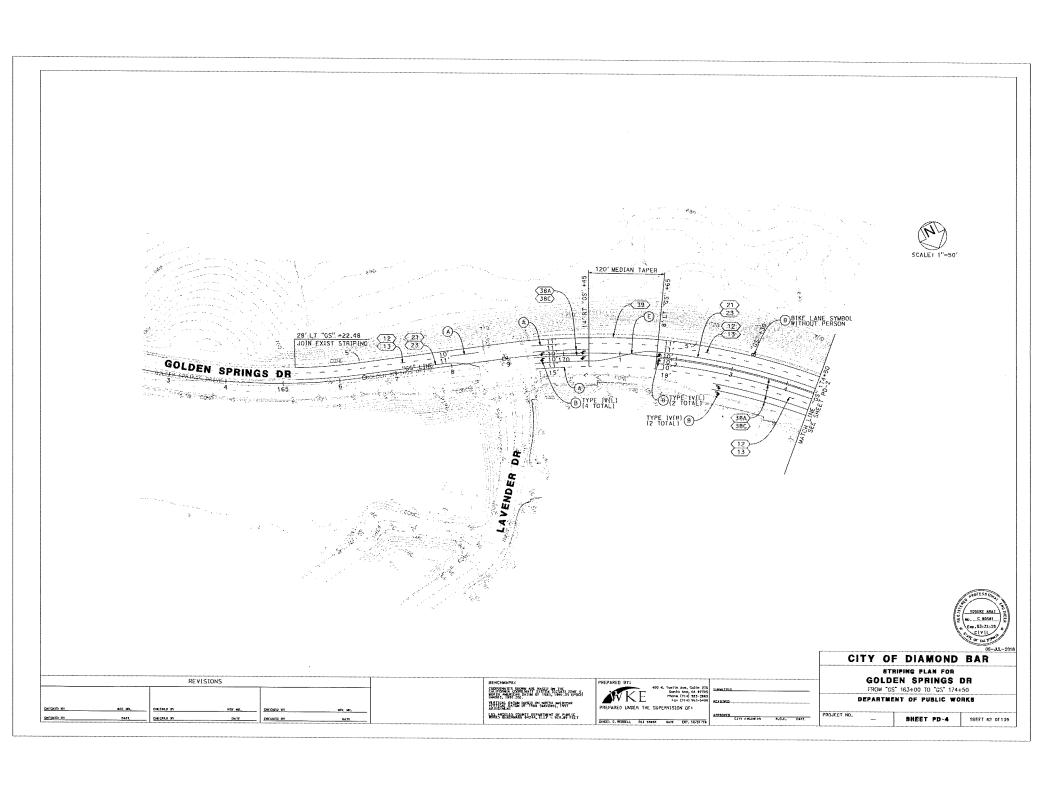
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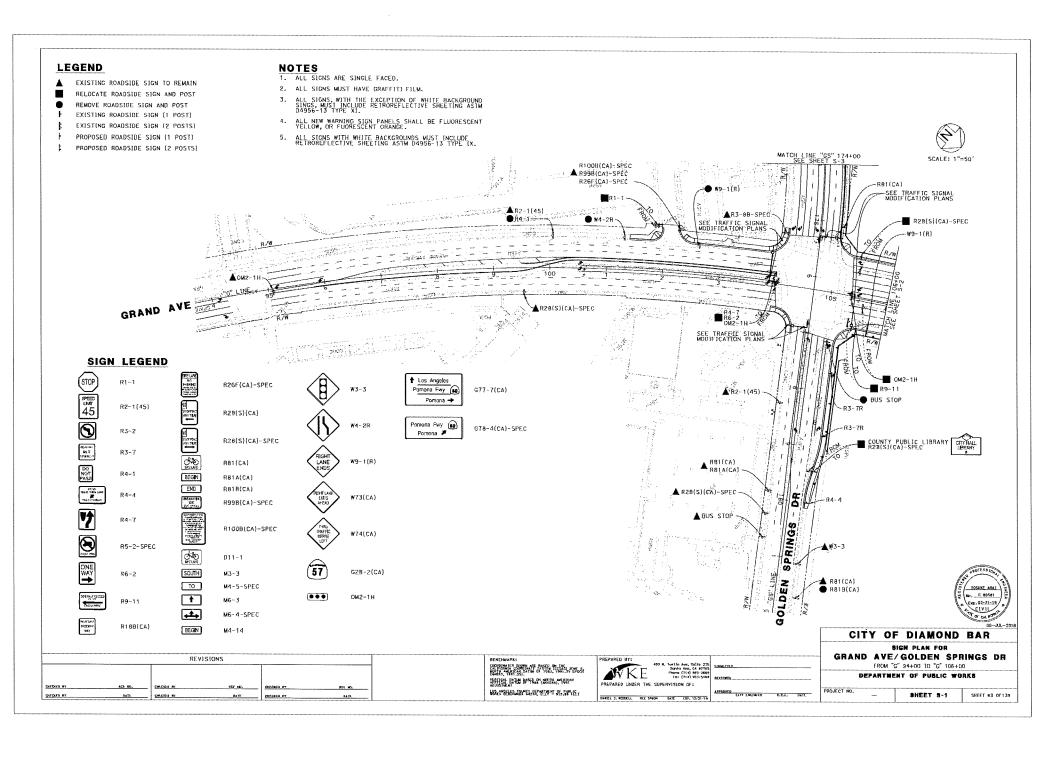
FROM "C" 83-400 TO "C" 93-500

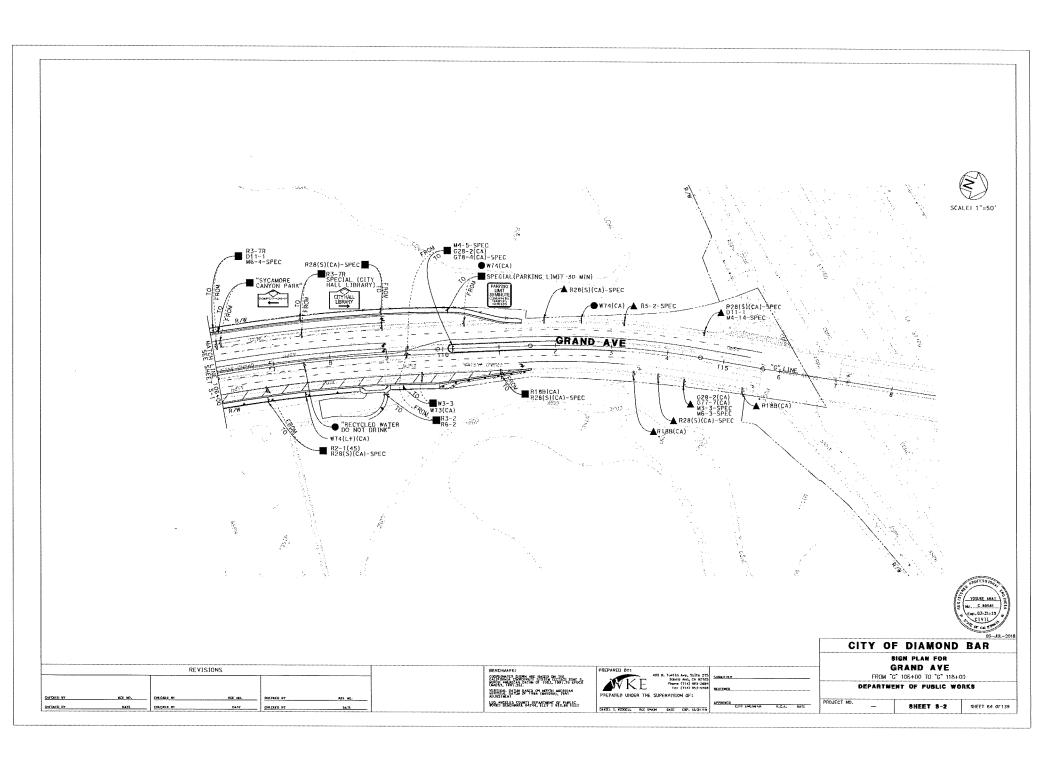
DEPARTMENT OF PUBLIC WORKS

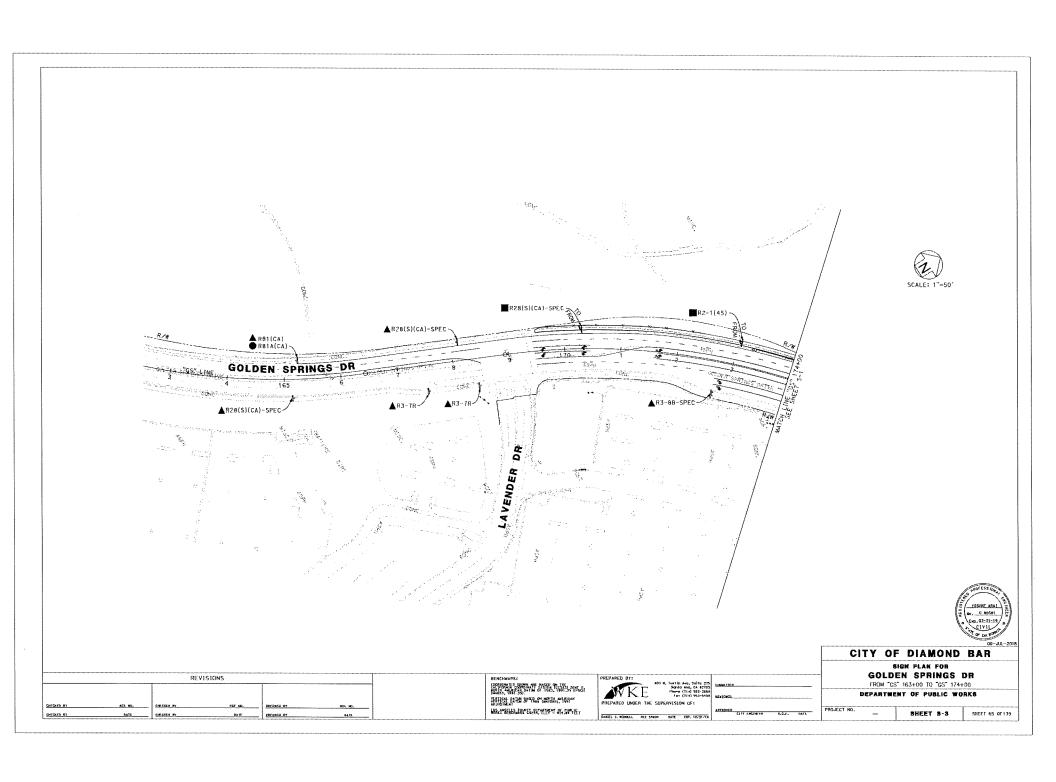


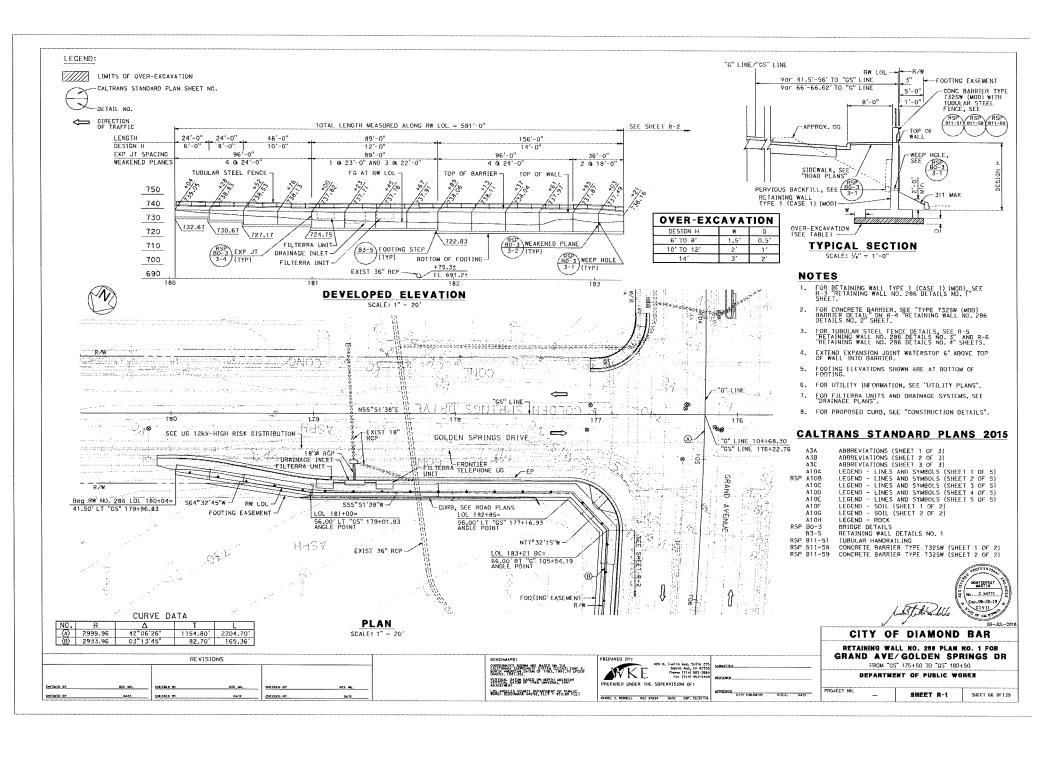


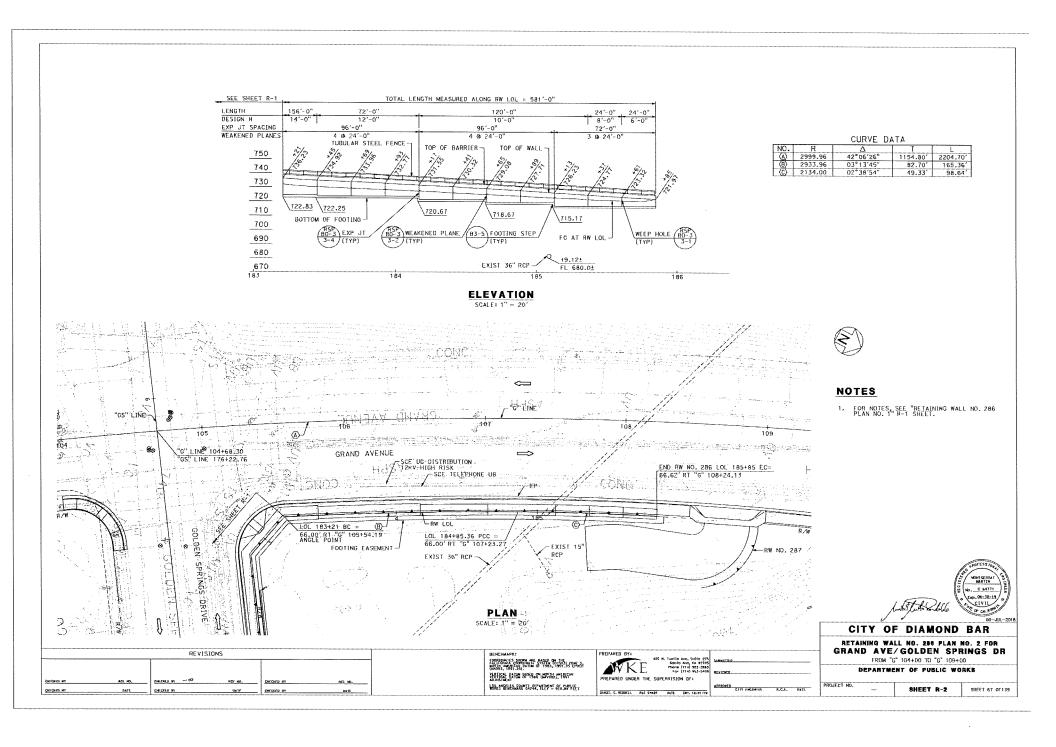


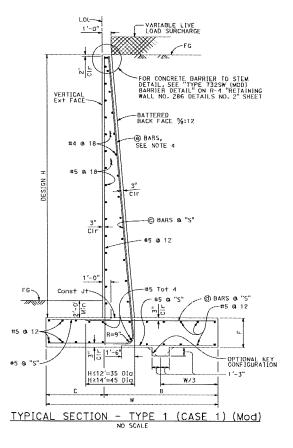












### DESIGN CONDITIONS:

Design H may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting bearing stress listed in the table.

#### NOTES:

(B3-5) 1. For details not shown and drainage notes see

2. For wall stem joint details see (1859-3)

3. At 6 bars: H  $\leq$  6', no splices are allowed within 1'-8" above the top of footing. H > 6', no splices are allowed within H/4 above the top of footing.

- 4. Provide #6 9 10" x 15'-0"@ bars over a distance of 8'-0" measured from all expansion joints, begin wall and end wall locations. Hook @ bar into footing and reduce bar length as needed to maintain Min CIr cover.
- 5. For concrete, the comentitious material must be composed of one of the following, by weight:
  - 1. 20 percent notural pozzolan or fly ash with CaO content of up to 10 percent, 5 percent silica fume, and 75 percent portland cement.
  - 2. 12 percent silica fume, metakgolin, or UFFA, and 88 percent portland cement.
  - 3. 50 percent GGBFS and 50 percent portland cement.
- 6. For concrete, the ratio of the quantity of free water to the quantity of cementitious material must not exceed 0.40.

### SYMBOLS:

Ser - service limit state ! Str - strength limit state I

Ext I - extreme event timit state I Ext II - extreme event limit state II

B' - effective footing width (ft)

 $q_0^\prime$  - net bearing stress (ksf), OG assumed to be FG at toe

qo - gross uniform bearing stress (ksf)

# DESIGN NOTES:

DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments

LS: Varied surcharge on level ground surface

54 kip transverse force applied at He = 32", distributed over 10 feet at the top of wall and 1:1 distribution down and outward. Distribution below footing taken no less than 40'. CT:

SEISMIC:  $k_h = 0.219, k_V = 0.0$ 

soil: ø = 32°, y = 120 pcf

REINFORCE.D

CONCRETE:

LOAD COMBINATIONS AND LIMIT STATES: Service [ 0 = 1.0006-1.00EV+1.00EH+1.00LS Strongth 1 0 = adc+PEV+PEH+1.75LS Extreme 1 0 = 1.0006-1.00EV+1.00EH+1.00E0D+1.00E0E Extreme 11 0 = 1.0006-1.00EV+1.00EH+1.00ET

Where:

Force Effects
1.25 or 0.90, Whichever Controls Design
1.50 or 1.00, Whichever Controls Design
1.50 or 1.00, Whichever Controls Design
1.50 or 1.00, Whichever Components
Dead Load of Structure Components
Horizontal Earth Fill Pressure
Vertical Earth Pressure from Earth Fill Weight
Live Load Surcharge

Verification the resource from Earth Fill Height Live Load Surcharge Seismic Earth Pressure Soil and Structural and Nonstructural Components Inertia Vehicular Collision Force

RETAINING WALL MUST CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND STANDARD SPECIFICATIONS 2015 EDITION.

TABLE OF REINFO	DRCING STEE	L, DIM	ENSION	IS AND	DATA
DESIGN H	6'	8'	10'	12'	14'
W	7'-0"	7'-3"	7'-7"	8'-4"	9'7"
C	2'-2"	2'-2"	2'-3"	2'-5"	2'-11"
8	4'-10"	5'1"	5'-4"	5'-11"	6'8"
F	1'-4"	1'-4"	1'-4"	1'-6"	1'-8"
SPACING "S"	9"	9"	9"	8"	7"
© BARS	#6	#6	#6	#6	Ħŧ
(I) BARS	#5	#6	#6	#6	#6
Ser: B'. q'o	6.4. 1.5	6.3, 1.8	6.0, 2.3	6.6, 2.5	7.7, 2.1
Str: B', qo	6.3, 2.2	6.0, 2.7	5.6, 3.9	6.1, 4.3	7.1, 4.
Ext [: B', qo	5.0, 1.5	4.7, 2.0	4.1, 3.1	4.3, 3.5	5.0, 4.
Ext II: B', 90	2.6, 3.3	2.9, 3.5	3.2, 4.1	4.1, 3.8	5.3, 3.



CITY OF DIAMOND BAR

RETAINING WALL NO. 200 DETAILS NO. 1 FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

PROJECT NO

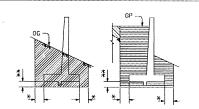
SHEET R-3

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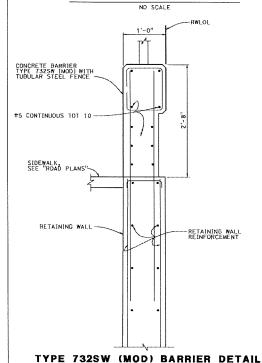


DANEEL S. MICHOELL. REE SMAB4 AATE COP. 12/31/15

REVISIONS -



# LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL



- \* VARIES, SEE TYPICAL SECTION FOR OVER-EXCAVATION WIDTH
- \*\* VARIES, SEE TYPICAL SECTION FOR OVER-EXCAVATION DEPTH

### LEGEND:

BUNDLED BARS -2 BARS PER BUNDLE



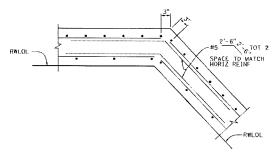
STRUCTURE EXCAVATION



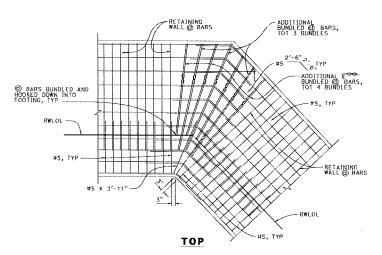
STRUCTURE BACKFILL

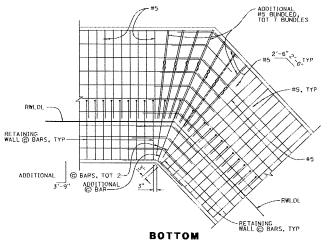


ROADWAY EMBANKMENT



# STEM ANGLE REINFORCEMENT DETAIL





# 11/2"=1'-0"

REVISIONS

### NOTES:

- FOR RETAINING WALL REINFORCEMENT AND DETAIL, SEE "RETAINING WALL NO. 286 DETAILS NO. 1" R-3 SHEET.
- 2. FOR BARBLER DIMENSIONS AND RELMFORCEMENT SECRET AND STANDARD RELMFORCEMENT SECRET SECRET RELATION OF THE SECRET SECRET EXCEPT AS NOTED. FOR TUDILLAR HANDRAILING SEC CALTRANS STANDARD PLAN RSP B11-51.

# FOOTING ANGLE REINFORCEMENT DETAILS



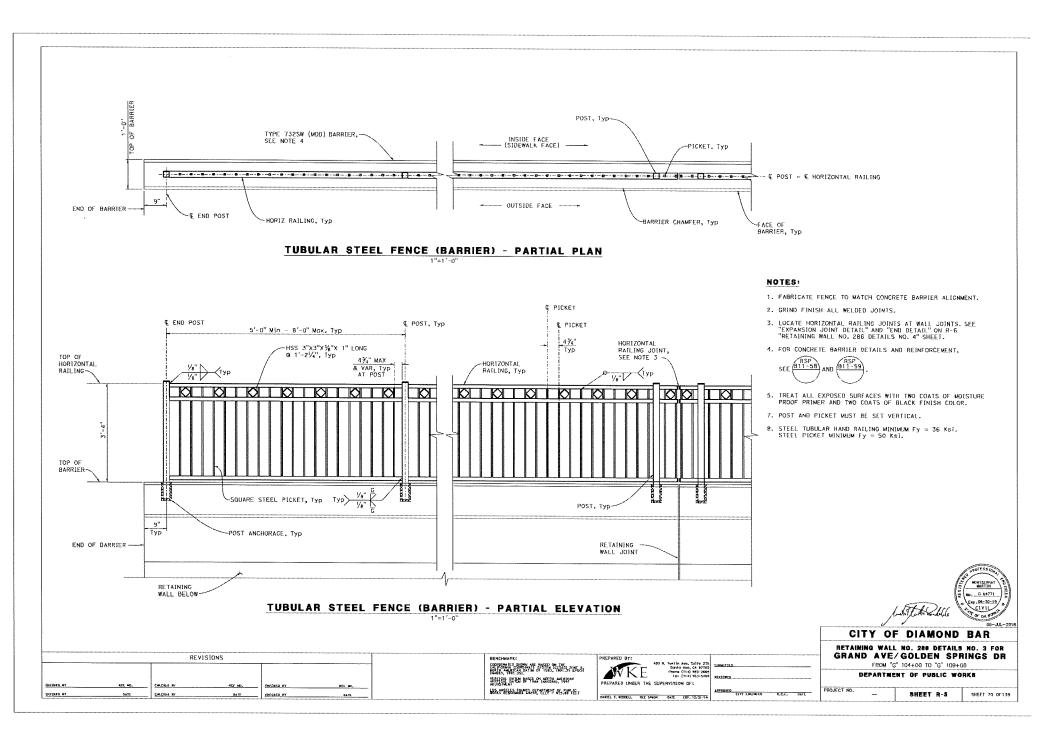
CITY OF DIAMOND BAR RETAINING WALL NO. 288 DETAILS NO. 2 FOR GRAND AVE/GOLDEN SPRINGS DR

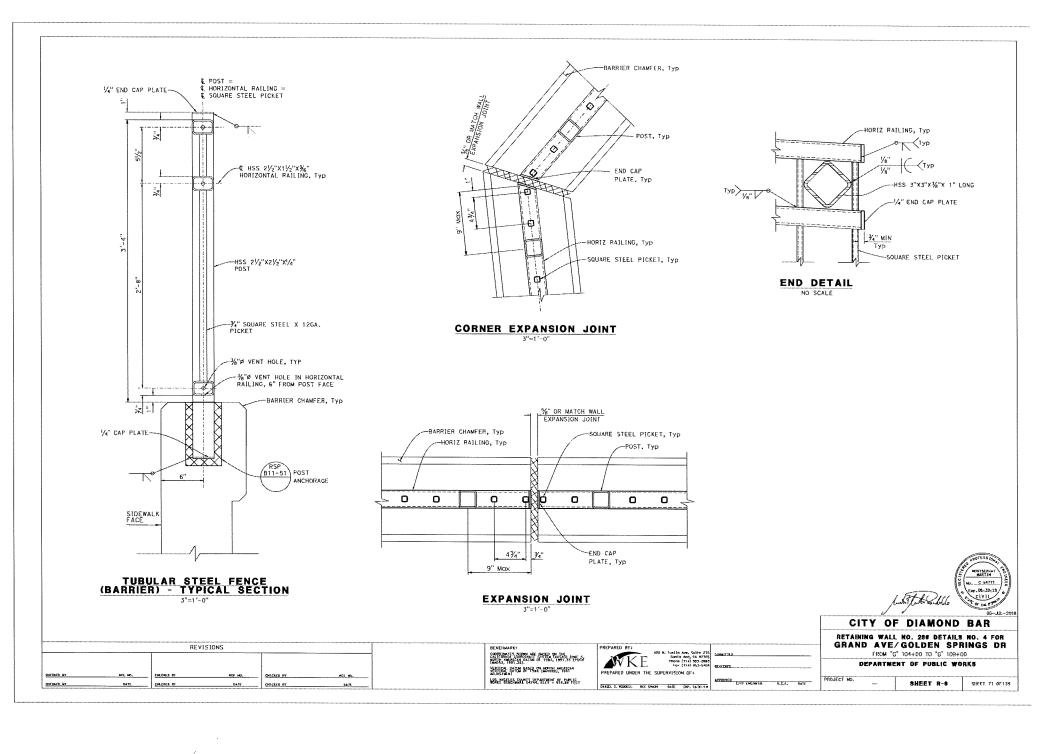
DEPARTMENT OF PUBLIC WORKS

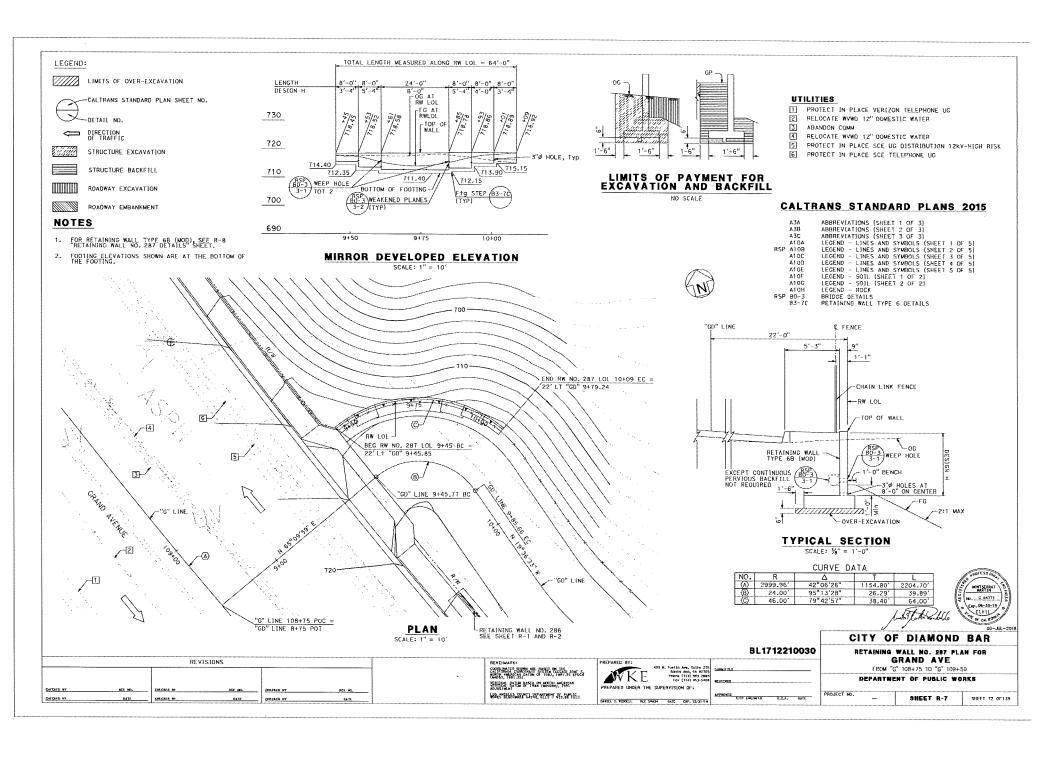
COMPUNATES SHOWN ARE MASED ON THE CALL COMPUNATE STATES OF THE STATES OF WHEAT HATEN WATER ON MOUTH MARIEN

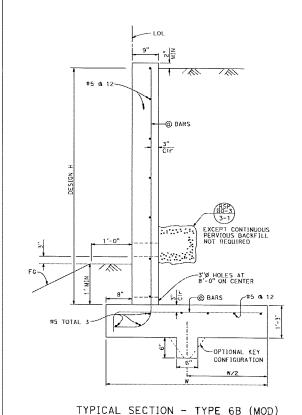


PROJECT NO. SHEET R-4









NO SCALE

REVISIONS

CHECKES BY

### SYMBOLS:

Ser - service limit state (

Str - strength limit state [ Ext - extreme event limit state ] B' - effective footing width (ft) qo - net bearing stress (ksf), OG assumed to be FC at toe qo - gross uniform bearing stress (ksf)

### NOTES:

1. For reinforced concrete wall stem joint details, See

2. No splices are allowed on @ bars.

See "Retaining Wall Type 6 Details" (B3-TC) sheet for Footing Step Details.

4. For concrete, the cementitious material must be composed of one of the following; by weight:

1. 20 percent natural pozzalan or fly ash with CaO content of up to 10 percent, 5 percent silica fume, and 75 percent portland cement.

12 percent silica fume, metakaolin, or UFFA, and 88 percent portland cement.

50 percent GGBFS and 50 percent portland cement.

5. For concrete, the ratio of the quantity of free water to the quantity of cementitious moterial must not exceed

#### DESIGN NOTES:

AASHIO LRED Bridge Design Specifications, 6th Edition with California Amendments DESIGN:

240 psf surcharge on level surface as limited by curb location (minimum 5'-0" from LOL). 15:

SEISMIC:

SOIL:

CONCRETE:

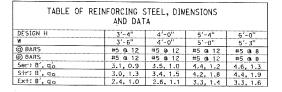
f'c = 3,600 psi fy = 60,000 psi

LOAD COMBINATIONS AND LIMIT STATES: Service 1 0 = 1.00DC+1.00EV+1.00EH+1.00LS Strength 1 0 = 0DC+FEV+HEH1.75LS Extreme 1 0 = 1.00DC+1.00EV+1.00EH+1.00E0D+1.00E0E

Where: Q: q: p: n: DC: Force Effects
1.25 or 0.90, Whichever Controls Design
1.35 or 1.00, Whichever Controls Design
1.50 or 0.90, Whichever Controls Design
Dead Load of Structure Components
Horizontal Earth Fill Pressure
Vertical Earth Pressure Trom Earth Fill Weight
Lee Load Surcharge
See The Pressure Most Purchase Components

Soil and Structural and Monstructural Components Inertio

RETAINING WALL MUST CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND STANDARD SPECIFICATIONS 2015 FOITION.



BL1712210030

CITY OF DIAMOND BAR

RETAINING WALL NO. 287 DETAILS FOR GRAND AVE

No. C 64771 CIVIL

SHEET T3 OF139

DEPARTMENT OF PUBLIC WORKS

PROJECT NO SHEET R-8

COOPDINATES SHOWN ARE MASED ON THE CAN FOUND COMMINATE STREET COSMISSION STREET, TOP 1983, 1891, 35 EPOCK THE HATH WATER MANER METERS

LEAKS WELLA ERLY EL PRE VELDENT OF SHELLET

### GENERAL IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION
  OF THE WORK ARE HERESY INCORPORATED INTO AND MAKE A PART OF THESE SPECIFICATIONS AND THEIR
  PROVISIONS SHALL BE CRATIED OUT BY THE CONTRACTOR, JRRIGATION INSTALLATION SHALL BE PER CITY
  OF DIAMOND BAR AND COUNTY CODES, NORMAL APPROVED STANDARDS OF PROCEDURE AND MANUFACTURER'S
  SPECIFICATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, TOOLS, MACHINENT, AND EQUIPMENT MECESSARY TO COMPLETE SPRINKLER SYSTEM AND ADJUSTMENT, INCLUDING TRENCHING, BEACHLILING, ETC.
- THE CONTRACTOR SMALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES, AND POINT OF CONNECTION, BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE DAYLY, AND DISCREPANCES RETWICES AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY OF DIAMOND BAR'S AUTHORIZED.
- COORCINATE THE INSTALLATION OF ALL SPRINKLER MATERIALS, INCLUDING PIPE, WITH ANY EXISTING LANDSCAPING TO AVOID INTERFERING WITH THE TREES, SHRUBS, OR OTHER PLANTING.
- THIS DESIGN IS BIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVEO AREAS SHALL BE FOR DESIGN CLARITY ONLY AND SHALL BE INSTALLED WITHIN PLANTING AREAS, THE CONTRACTOR SHALL LOCATE ALL VALVES IN SHRUB AREA
- ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR IN THE SPECIFICATIONS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- 8. REFER TO SPECIFICATIONS FOR STANDARDS OF MATERIALS AND WORKMANSHIP.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT SITE CONDITIONS AND ALL IRRIGATION MATERIALS THAT ARE TO REMAIN. SHOULD DAMAGE BE INCURRED, THE CONTRACTOR SHALL REPAIR DAMAGE TO THE ORIGINAL CONDITION OF HURINISH AND REPLACE EQUAL REPLACEMENTS.
- THE CONTRICTOR SMALL NOT PROCEED WITH CONSTRUCTION AS SHOWN ON THE PLANES WHEN IT IS OBVIOUS IN THE FIRST OF MACHINERY OF THE OFFICE OFFICE OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF
- 12. REFER TO THE DIAMOND BAR GOLF COURSE AS-BUILTS FOR ADDITIONAL INFORMATION.
- 13. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIALS, EQUIPMENT AND WASTE.
- 14. MONTRACTOR SHALL CHECK THE MATER PRESSURE OF THE EXISTING (REGILATION MATER SUPPLY TO ENSURE THERE IS SUFFICIENT MATER PRESSURE FOR THE PROFSCE INSTITUTION DESIGN. CONTRACTOR SHALL IMMEDIATELY MOTTRY THE CITY OF DIAMOND DAR'S AUTHORIZED REPRESENTATIVE IT SUFFICIENT WATER PRESSURE IS NOT AVAILABLE.
- 15. ALL IRRICATION HEADS ADJACENT TO WALKWAYS SHALL BE POP-UPS.
- 16. ALL PIPE LINDER PAYED AREAS SHALL BE INSTALLED IN A SCH. 40 SLEEVE TRICE THE DIAMETER OF THE PROPERTY OF THE PROPERTY OF THE STATE OF THE PROPERTY OF THE STATE OF THE STA
- 17. ALL PIPE OVER CONCRETE DRAINAGE SHALL BE INSTALLED IN A GALVANIZED SLEEVE 1.5 (X) THE DIAMETER OF THE PIPE CARRIED. ALL SLEEVES SHALL BE AS SHOWN ON THE PLANS.
- 16. PIPE VIZES SHALL COMPORE TO THOSE SHOWN ON THE DRIVINGS NO SUBSTITUTIONS OF SMALLER PIPE STEES SHALL BE PROMITED BUT SUBSTITUTIONS OF SMALLER PIPE REJECTED FIPE SHALL BE REMOVED FROM THE SITE BY THE CITY OF DIAMOND PAR'S AUTHORIZED REPRESENTATIVE TIME OF SAID REJECTION.
- 19. PROVIDE PVC SCHEDULE 40 CONDUIT FOR CONTROLLER WIRES WHEREVER CONNECTIONS GETWEEN ELECTRIC VALVES AND CONTROLLER PASS THROUGH OR UNDER MASONRY, PAVING, ETC.
- 20. ALL HEADS SHALL BE INSTALLED WITH NOZZLE, SCREEN, AMD ARCS SHOWN ON THE PLANS. ALL HEADS SHALL BE ADJUSTED TO PREVENT OVERSEARY AND WARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFLISER PIN OR ADJUSTMENT SCREEN, REPLACEMENT OF PRESSURE COMPENSATION SCREENS, REPLACEMENT OF MOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF MOZZLES WITH ADJUSTMENT OF MOZZLES WITH
- 21. CONTRACTOR SHALL ADJUST ALL EXISTING IRRIGATION NOZZLES PER NEW PATHWAY LAYOUT.
- 20. GENERAL CONTRACTOR SHALL CORPILIATE WITH IRRIGATION CONTRACTOR AS TO THE LOCATION AND IDENTIFICATION OF ALL CAPPED IRRIGATION MAINLINE AND REMOTE CONTROL ELECTRICAL WIRE. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS SHOWING THE LOCATIONS OF ALL CITY LEPPED AND DAMAGED IRRIGATION COMPONENTS.
- 23. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING IRRIGATION MAINLINE IN THE FIELD PRIOR TO NEW IRRIGATION INSTALLATION.
- 24. FOR AREAS TO RECEIVE NEW IRRIGATION, THE CONTRACTOR SHALL INSTALL IRRIGATION EQUIPMENT PER PLAN. PROVIDE NEW REMOTE CONTROL VALVES AND CONNECT TO EXISTING MAINLINE.
- 25. ACTUAL LOCATION FOR THE INSTALLATION OF THE CONTROLLER SHALL BE VERIFIED IN THE FIELD AND IN COORDINATION WITH BOLF COURSE MAINTENANCE PERSONNEL AND THE CITY OF DIAMOND BAR'S AUTHORIZED REPRESENTATIVE.
- 26. THE SPRINKLER INSTALLATION ADJUSTMENTS SHALL BE DEEMED INCOMPLETE UNTIL ALL SPRINKLER HEADS, VALVES, AND ALL RELATED IRRICATION EQUIPMENT HAVE BEEN CHECKED AND ADJUSTED TO BEST CONFORM TO THE CONDITIONS AND REGULERMENTS THAT MILL PREVAIL AT THE FINISHED SITE.
- 21. THE INSTALLATION AND OPERATION OF THE SYSTEM MUST BE COMPLETE AND FULLY OPERATIONAL PRIOR TO TURNING OVER TO GOLF COURSE MAINTENANCE PERSONNEL.
- 28. THE IRRIGATION CONTRACTOR SHALL QUARANTEE THE ENTIRE SPRINKLER SYSTEM AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A MAINTENANCE PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY CITY OF OLDANOB BARS AUTHORIZED REFSEN
- 29. PROVIDE SPRING CHECK VALVES IN LATERAL LINES IF EROSION IS OCCURRING AROUND SPRINKLER HEADS.
- 30. BRENT HARVEY CONSULTING 23741 MODNGLOW CT. RAMONA, CA 92D65 TEL; T60-787-0842

REVISIONS CHECOKE BY DISTRICT OF CHECKED B

### IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	G.F.M.	RACIUS	PSI	NOTES
0	GEAR ROTOR ON RISER	RAIN BIRD	500D+S-PC-SAM-PL-PRS-NP	2.07	37'	45	10.00
2	POP-UP GEAR ROTOR	RAIN BIRO	5012+PC-SAM-PL-PRS-NP	2.07	37'	15	
3	GEAR ROTOR ON RISER	RAIN BIRD	5000+5-FC-SAN-PL-PRS-NP	2.07	37'	45	
•	REMOTE CONTROL VALVE	RAIN BIRD	PESB-R SERIES FOR RECYCLED WATER,				SIZE AS NOTED ON PLANS SEE DETAIL *1 ON SHEET L-4
$\boxtimes$	BALL VALVE	MIBCO	S~580~7D				SLEE OFF MOTES SKI SHEEF L-4
•	QUICK COUPLER	RAIN BIRD	14-NP				SIZE AS NOTED ON PLANS SEE DETAIL #8 ON SHEET L-4
-	MAIN LINE	-	PURPLE PVC CLASS 315				SIZE AS NOTED ON PLANS SEE OETAIL #7 ON SHEET L-4
	- UV LATERAL LINE	-	SCH. 10 PVC				ABOVE GRAUE INSTALLATION. SIZE AS NOTED ON PLANS. STAKE 10'O.C. TAG PIPE NITH RECYCLED WATER MARKINO TAPE AT EVERT 10'. TAPE BY CHRISTY'S OR APPROVED EGUAL, SEE DETAIL #9 ON SHEET L-4.
	- PVC LATERAL LINE	-	PURPLE SCR. 40 PVC				UNDER GRADE INSTALLATION. SIZE AS NOTED ON PLANS. SEE DETAIL #7 ON SHEET L-4
***************************************	GALVANIZED STEEL SLEEVE	-					INSTALL OVER CONCRETE DRAINADE. 1.5X SIZE OF LATERAL LINE. SEE DETAIL ON SMEET L-2.
$\boxtimes$	EXISTING CONTROLLER		_				SEE IRRIGATION PLAN FROM BRENT HARVEY CONSULTING FOR
	and the same and the same						RAINBIRD SATELLITE CONTROLLER MODEL AND LOCATION.
<b>©</b>	CONNECT TO EXISTING IRRIGATION MAINLINE.						SEE SHEET L-2 FOR CONNECTION LOCATIONS.
■ EF	NOSCAPE POINT OF CONSECTION PRENT HARVEY CONSULTING.	PER IRRICATION PLANS	FROM				

VALVE CALLOUT



.- O VALVE PER IRRIGATION PLANS FROM BRENT HARVEY CONSULTING.

GRAND AVE/GOLDEN SPRINGS PRESSURE	GRAND AVE/GOLDEN SPRINGS PRESSURE CALCULATIONS									
POC#1 FARTHEST POINT IN THE SYSTEM	(Valve A.	3) - 22	GPM		POC 2 FARTHEST POINT IN THE SYSTEM (Valve B-1) - 19 CPM					
IRRIGATION COMPONENTS	SIZE	UNIT	QTY	PSI LOSS	RRIGATION COMPONENTS	SIZE	UNIT	QTY	PSI LOSS	
EXISTING WATER METER (# 22 GPM)	2"	EACH	1	0	EX:STING WATER NETER (O 19 GPM)	2*	EACH	1	0	
EXISTING BACKFLOW PREVENTER	2*	EACH	1	12.0	EXISTING BACKFLOW PREVENTER	2"	EACH	1	12.0	
GATE VALVE	2"	EACH	4	.4	GATE VALVE	2"	EACH	4	.4	
MASTER CONTROL VALVE	2*	EACH	1	.2	MASTER CONTROL VALVE	2"	EACH	1	.2	
REMOTE CONTROL VALVE	1"	EACH	1	2.9	REMOTE CONTROL VALVE	1"	EACH	1	2.9	
MAINLINE (CLASS 315)	2 1/2"	FEET	130"	.20	MAINLINE (CLASS 315)	2 1/2"	FEET	800'	1.12	
EXISTING MAINLINE	2.	FEET	950'	.57	EXISTING MAINLINE	3"	FEET	1,250	.63	
LATERAL (SCH. 40)	3/4"	FEET	74'	1.34	LATERAL (SCH.40)	3/4"	FEET	107	1.74	
LATERAL (SCH.40)	1"	FEET	94"	1,9	LATERAL (SCH.40)	1"	FEET	55'	1.02	
LATERAL (SCH.40)	1 1/4"	FEET	105	2.85	LATERAL (SCH.40)	1 1/4"	FEET	130'	3.00	
ELEVATION: OPOC-680', OHEAD-718'	~	FEET	36'	17.0	ELEVATION: OPOC-580', OHEAD-724'	- 1	FEET	44"	19.0	
TOTAL DESIGN PRESSURE LOSS					TOTAL DESIGN PRESSURE LOSS					
FITTINGS (15% OF DESIGN PRESSURE)					FITTINGS (15% OF DESIGN PRESSURE) 8.3					
SPRINKLER HEAD OPERATING PRESSURE					SPRINKLER HEAD OPERATING PRESSURE 30					
TOTAL PRESSURE LOSS					TOTAL PRESSURE LOSS 78.					
STARTING PRESSURE @ POC					STARTING PRESSURE @ POC					
PRESSURE LEFT AT FARTHEST POINT					PRESSURE LEFT AT FARTHEST POINT				48.69	
NOTE: PRESSURE INFORMATION WAS REI COURSE AS-BUILTS DATED 12/21/1994.	EIVED FR	DIAMO	ND BAR	COUF	NOTE: PRESSURE INFORMATION WAS RECOURSE AS-BUILTS DATED 12/21/1984.		OHAID MC	ND BAR	GOLF	

IOIAL PRESSURE LOSS	76.31
STARTING PRESSURE O POC	127
PRESSURE LEFT AT FARTHEST POINT	48.69
NOTE: PRESSURE INFORMATION WAS RECEIVED FROM DIAMOND BAR COURSE AS-BUILTS DATED 12/21/1984.	GOLF

IRRIGATION COMPONENTS	SIZE	UNIT	QTY	PSI LOSS	
EXISTING WATER METER (* 17 GPM)	2"	EACH	1	Ð	
EXISTING BACKFLOW PREVENTER	2"	EACH	1	12.0	
GATE VALVE	2"	EACH	4	.4	
MASTER CONTROL VALVE	2"	EACH	1	.2	
REMOTE CONTROL VALVE	1"	EACH	1	2.9	
MAINLINE (CLASS 315)	2 1/2"	FEET	440	0.53	
EXISTING MAINUNE	3.	FEET	1,250	0.50	
LATERAL (SCH.40)	3/4"	FEET	104	1.66	
LATERAL (SCH.40)	17	FEET	35'	,55	
LATERAL (SCH.40)	1 1/4"	FEET	190	3.58	
ELEVATION: @POC-68C', @HEAD-742'		FEET	27	27	
TOTAL DESIGN PRESSURE LOSS				49.3	
FITTINGS (15% OF DESIGN PRESSURE)				7.4	
SPRINKLER HEAD OPERATING PRESSURE	***************************************			30	
TOTAL PRESSURE LOSS				85.7	
STARTING PRESSURE @ POC				127	
PRESSURE LEFT AT FARTHEST POINT					

COURSE AS-BUILTS DATED 12/21/1994



CITY OF DIAMOND BAR

LANDSCAPE & IRRIGATION PLAN FOR GRAND AVE/GOLDEN SPRINGS DR

IRRIGATION LEGEND & NOTES DEPARTMENT OF PUBLIC WORKS

ROJECT NO. CITY LACINEES S.C.E. DATE

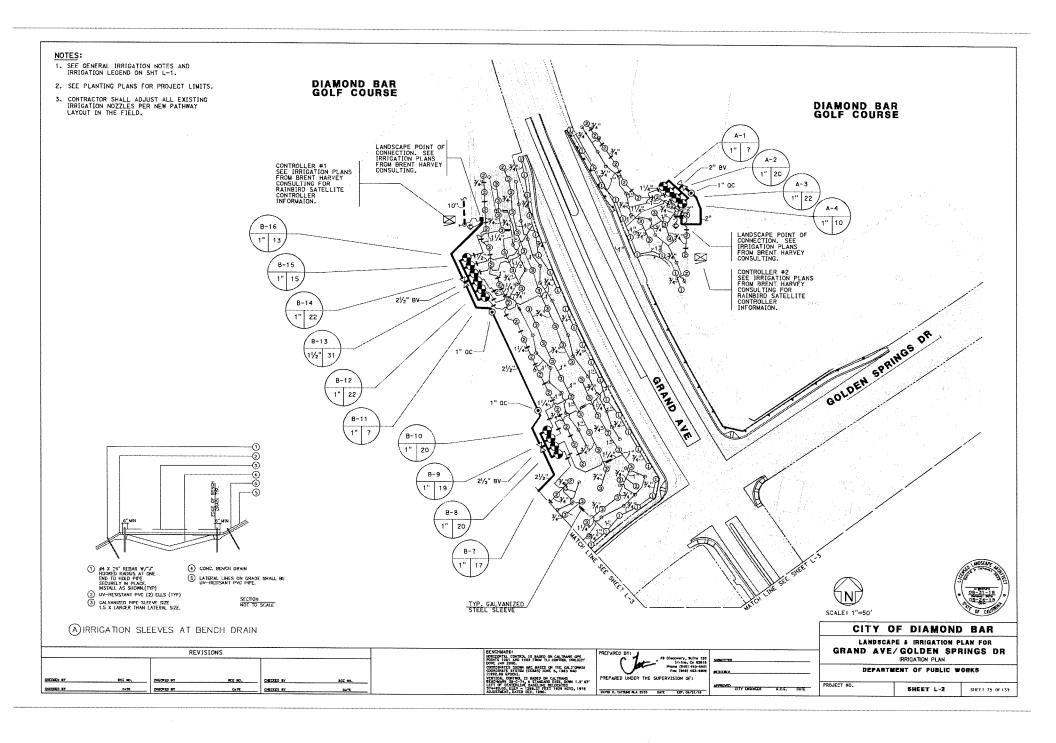
SHEET L-1

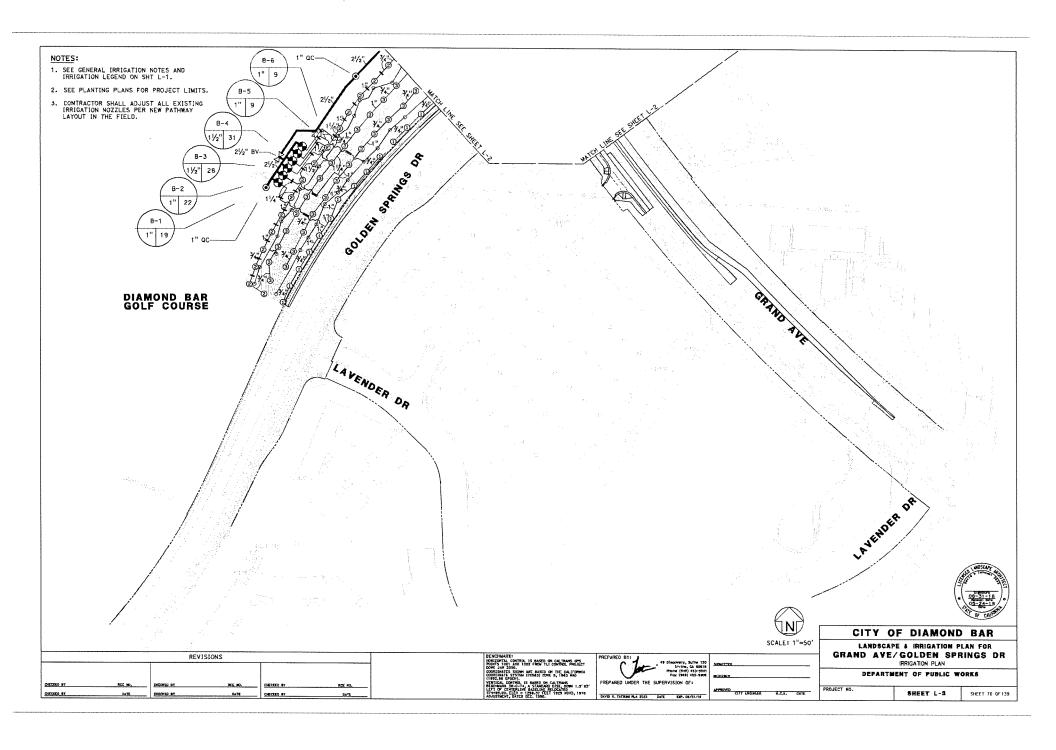
SHEET 74 OF 139

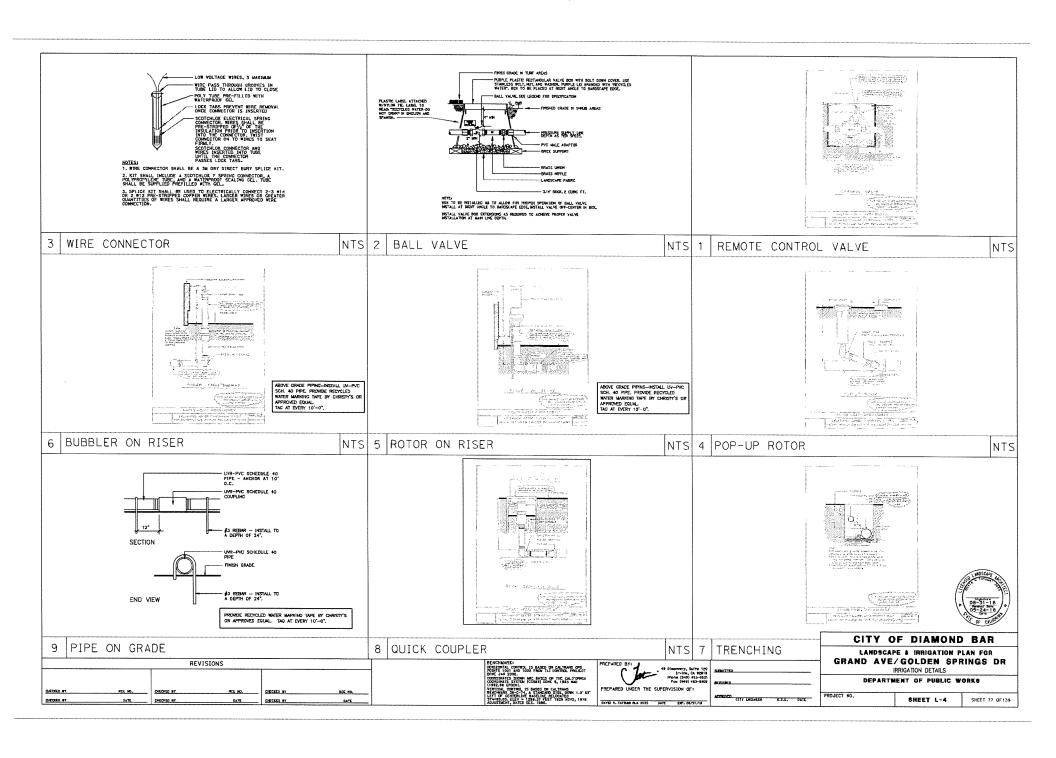
HORIZONTAL CONTROL IS BASED ON CALTRANS OFS PODETS 1003 AND 1002 FROM TLI CONTROL PROJECT DOME JAIR 2006.

CONTRIBUTES SINGME AND EASTED ON THE CALL PROPERTY CONTRIBUTES SINGME AND EASTED ON THE CALL PROPERTY CONTRIBUTES STATUM (CCMS) DOME 5, 1945 AMD (1992.88 EVOCH), 1945 AMD (1992.88 EVOCH), 1945 AMD DEEL OOM 1,2 457 AMD (1992.89 EVOCH), 1945 AMD (1992.89 EVOCH), 1946 AMUSTRACIN, AMTOR DEEL (1992.80 EVO.), 1946 AMUSTRACIN, 1947 AMUSTRACIN, 1947 AMUSTRACIN, 1947 AMUSTRACIN, 1947 AMUSTRACIN, 1947 AMUSTR













REVISIONS







## WATER EFFICIENT LANDSCAPE WORKSHEET

# GRAND AVE. / GOLDEN SPRINGS DR.

City of Diamond Bar, CA

TAP Project No. 2016991

### GOLDEN SPRINGS: SLOPE #1



# GOLDEN SPRINGS: SLOPE #2



# CITY OF DIAMOND BAR

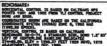
LANDSCAPE & IRRIGATION PLAN FOR GRAND AVE/GOLDEN SPRINGS DR WALNUT VALLEY WATER DISTRICT RECYCLED WATER REQUIREMENTS

DEPARTMENT OF PUBLIC WORKS

PROJECT NO.

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SHEET 78 OF 139





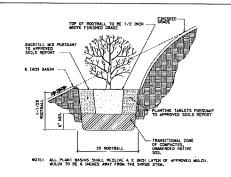




## GENERAL PLANTING NOTES

- CONTRACTOR SHALL VERIFY SITE CONDITIONS, REVIEW PLANS, AND PLANT QUANTITIES PRIOR TO INSTALLATION, CONFLICTS BETWEEN THE SITE AND THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF GLAMOND BAR'S AUTHORIZED REPRESENTATIVE PROOR TO LANDSCAPE INSTALLATION.
- ANY DEVIATION(S) FROM THE PLANS OR SPECIFICATIONS IS TO HAVE WRITTEN
  APPROVAL BY THE CITY OF DIAMOND BAY'S AUTHORIZED REPRESENTATIVE PRIOR
  TO BEGINNING WORK, DEVIATIONS CONDUCTED WITHOUT WRITTEN APPROVAL SHALL
  SE AT THE CONTRACTOR'S OWN RISK.
- PLANTS MAY BE APPROVED OR REJECTED BY THE CITY OF DIAMOND BAR'S AUTHORIZED REPRESENTATIVE AT THE PLACE OF GROWTH AND/OR ON THE PROJECT SITE AT ANY TIME DURING THE PROGRESS OF MORK.
- 311 E A ART THE ACCUPANT OF DIAMONO BAR'S AUTHORIZED REPRESENTATIVE IT SPECIFED PLANT MATERIAL IS NOT AVAILABLE BEFORE SUBSTITUTIONS ARE MADE, ALL PLANT MATERIAL IS NOT AVAILABLE APPROVED IN WRITING BY THE CLIY OF DIAMONO BAR'S AUTHORIZED REPRESENTATIVE.
- ALE PLANT MATERIALS SHALL BE EQUAL TO OR SURPASS THE MICHEST STANDARDS FOR QUALITY IN ACCORDANCE MITH THE LATEST COITION OF "MORTICULTURE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERTMEN, INC."
- 6. TOP DRESS ALL PLANTING AREAS WITH 3" THICKNESS OF WOOD MULCH AFTER INSTALLATION OF PLANT MATERIALS.
- THE LANDSCAPE ARCHITECT ASSUMES NO GUARANTEE OR RESPONSIBILITY FOR THE HEALTH OR VIABILITY OF THE SPECIFIED PLANT MATERIAL DUE TO UNKNOWN SOIL AND GEOLOGICAL CONDITIONS.
- 8. APPROVED ON-SITE TOPSOIL SMALL BE FERTILE, FRIABLE SOIL OF LOAMY CHARACTER MAYING A NORMAL MADUNT OF MATURAL HUMUS. IT SMALL BE SEEDS, BROWN, MEMOURS OF COTHER DELETRINGS WAS TERES, SOLD OF SEEDS, SHOULD SEEDS, SHOULD SEEDS, SHOULD SEED OF COTHER DELETRINGS WAS THE SEEDS, SHOULD SEED OF COTHER DELETRINGS WAS THE SEED OF SEEDS, SHOULD SEED OF SEEDS SHOULD SEED OF SEEDS SHOULD SEED OF SEEDS SHOULD SEED OF SEED SEEDS.
- 9. PLANT QUANTITIES SPECIFIED TAKE PRECEDENCE OVER PLANT SYMBOLS SHOWN.
- PLANT BOXED TREES PRIOR TO INSTALLATION OF IRRIGATION LATERAL LINES -SPRINKLER PLACEMENT SHALL BE COORDINATED WITH THE LOCATIONS OF THE TREES AND SHRINGS.
- 11. ALL TREES AND SPECIMEN MATERIAL SHALL BE OF ADEQUATE TRUNK CALIPER TO STAND WITHOUT SUPPORT.
- 12. ALL PAYING TO BE SWEPT AT THE END OF EACH WORK DAY OF ALL SOIL AMENDMENTS AND PLANTING MIXES PRIOR TO ANY MATERING APPLICATIONS TO PREVENT ANY POSSIBLE STAINING OF PAYMENT.
- 13. CONTRACTOR SHALL KEEP ALL AREAS OF WORK CLEAN, NEAT AND ORDERLY AT ALL TIMES. CLEAN ALL CONSTRUCTION AREAS AT THE END OF EACH WORK DAY AND DISPOSE OF ALL CERRIS OFF SITE IN A LEGAL MANNER.
- USPUSE OF ALL DEBNIS OF SIZE IN A LEGAL MANNER.

  4. THE CONTRACTOR SHALL MAINTAIN ALL PLANTED AREAS BY MEANS OF CONTINUOUS
  MATERING, PRUNING, RAISING ROOT BALLS WHICH SETTLE BELOW GRADE,
  FERTILIZING, APPLICATION OF SPRAYS WHICH ARE NECESSARY TO KEEP THE
  PLANTINGS FREE OF INSECTS AND DISEASES, WEEDING, ROLLING, MOWING,
  RE-SEEDING, EDGING ANDOR OTHER OPERATIONS NECESSARY FOR PROPER CARE
  AND UPPEEP, THE CONTRACTION SHALL MAINTAIN ALL PLANTINGS AS SPECIFIED
  ABOVE FOR A PERIOD OF MINETY 500) MORNING DATS.
- 15. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING TREES, SHRIBS, AND GROUND COVERS THAT ARE TO REMAIN, SHOULD DAMAGE BE INCURRED, CONTRACTOR SHALL REPAIR DAMAGE TO THE ORIGINAL CONDITIONS AND FURNISH AND PLANT FLANTS OF MATCHING SIZE AND SPECIES.
- 16. THE CONTRACTOR SHALL CONDUCT FOUR APPROVACES OF THE CONTRACTOR SHALL CONDUCT FOUR APPROVACE BY THE CITY OF DIAMON BAR'S AUTHORIZED REPRESENTATIVE AS PART OF THIS CONTRACT. THE CONTRACT, THE CONTRACT, THE CONTRACT. THE CONTRACT SHALL INCORPORATE THE RECOMMENDATIONS OF THE SOILS REPORT WHEN INSTALLING THE PLANT MATERIALS.



ODEPACTED AMENDED BACKFILL

SUBSTRUCE

TOP OF STAKES SMALL NOT COME IN
CONTROL W SMAKCHES.

- REFER TO SPECIFICATIONS FOR MALCH,
PLANT PIT AND AMENDMENT REQUIREMENTS

2 1/2" DIA, WOOD STAKE
- CLEAR OF ROOTBALL
- TREE TIE

· (4) WATER BASIN BERN · (5) MULCH · (6) ROOT BALL

AMENDED BACKFILL

B) ROUGHENEDE PIT SIDES

2 SHRUB PLANTING ON SLOPE

1 TREE PLANTING AND STAKING ON SLOPE

PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	ατγ	NOTES
	EUCALYPTUS CAMALDULENSIS	RED GLW	24" 90X	19	-
200	EUCALYPTUS CITRICOCRA	LEMON-SCENTED GUN	24" BOK	27	-
$\langle \bigcirc \rangle$	PISTACIA CHINENSIS	CHIMESE PISTACHE	24" BOX	19	-
	GREVILLEA HONLISTA	S)LRY DAX	24° 80X	15	
<b>(A)</b>	PRUNJS ILJCIFOLJA	HOLLYLEAF CHERRY	E GAL	109	-
	LONICERA HALLIANA	JAPANESE HOMEYSWOKLE	FLATS	894	64 PLANTS/FLATS ALL LANDSCAPE AREAS DN SLOPE.

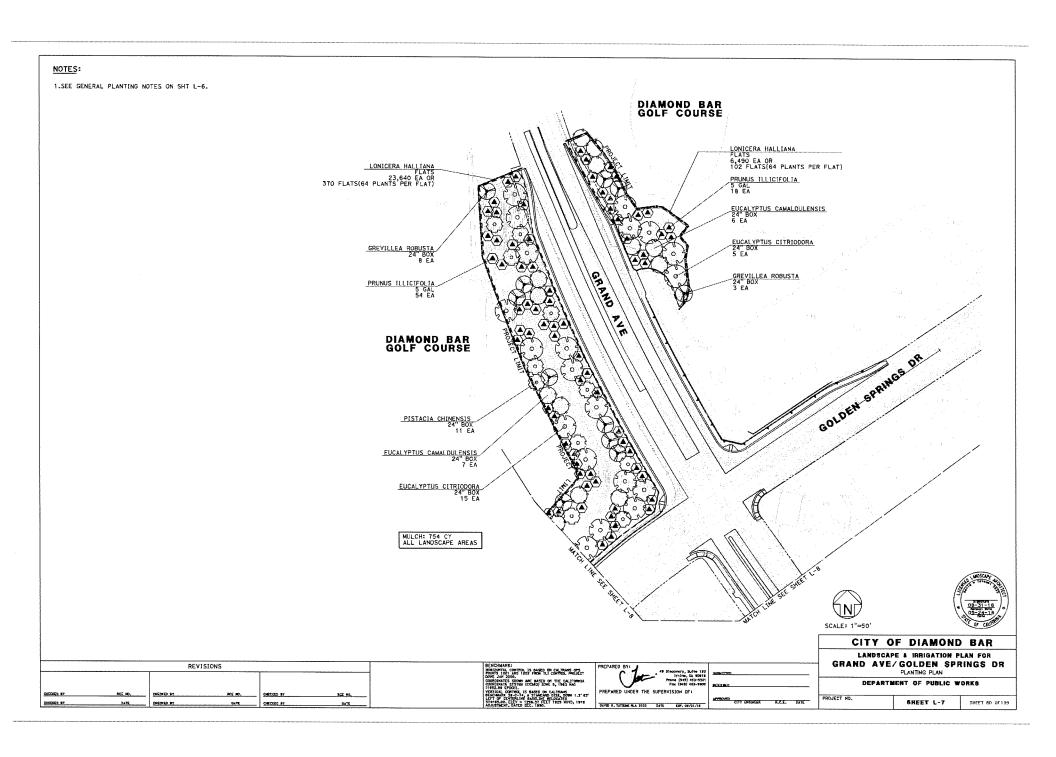
PROJECT LIMIT

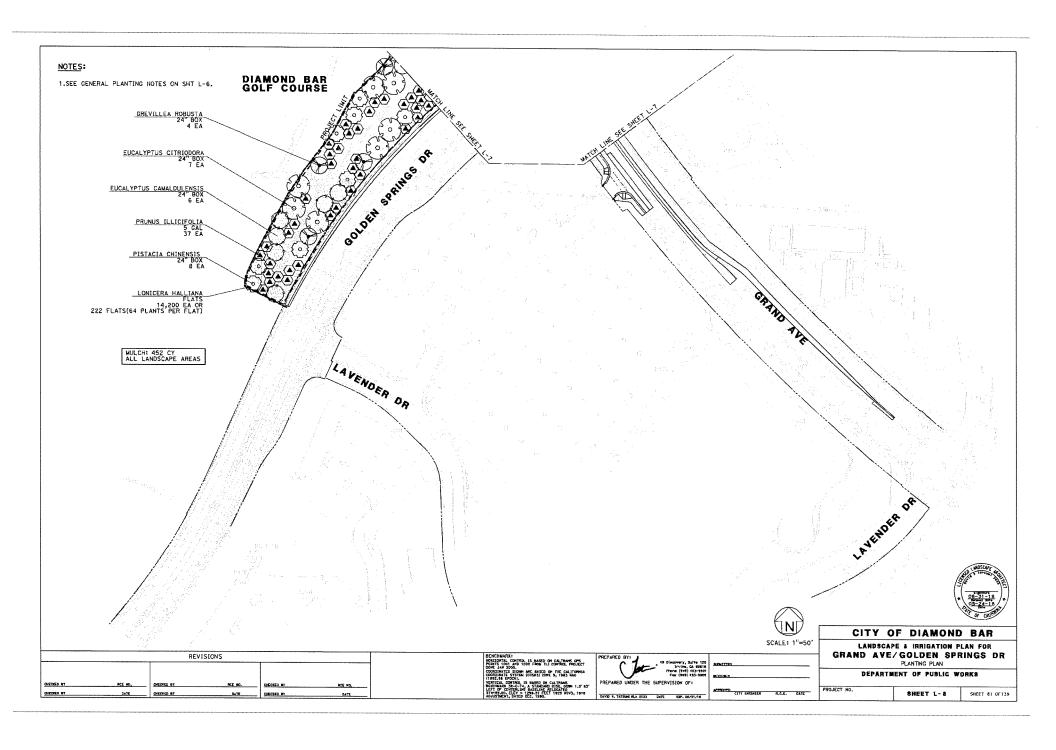
NOTE: PLACE SHAEDDED BARK MINICH IN ALL LANDSCAPE AREAS, 3" DEPTH. TOTAL: 1,206 CT

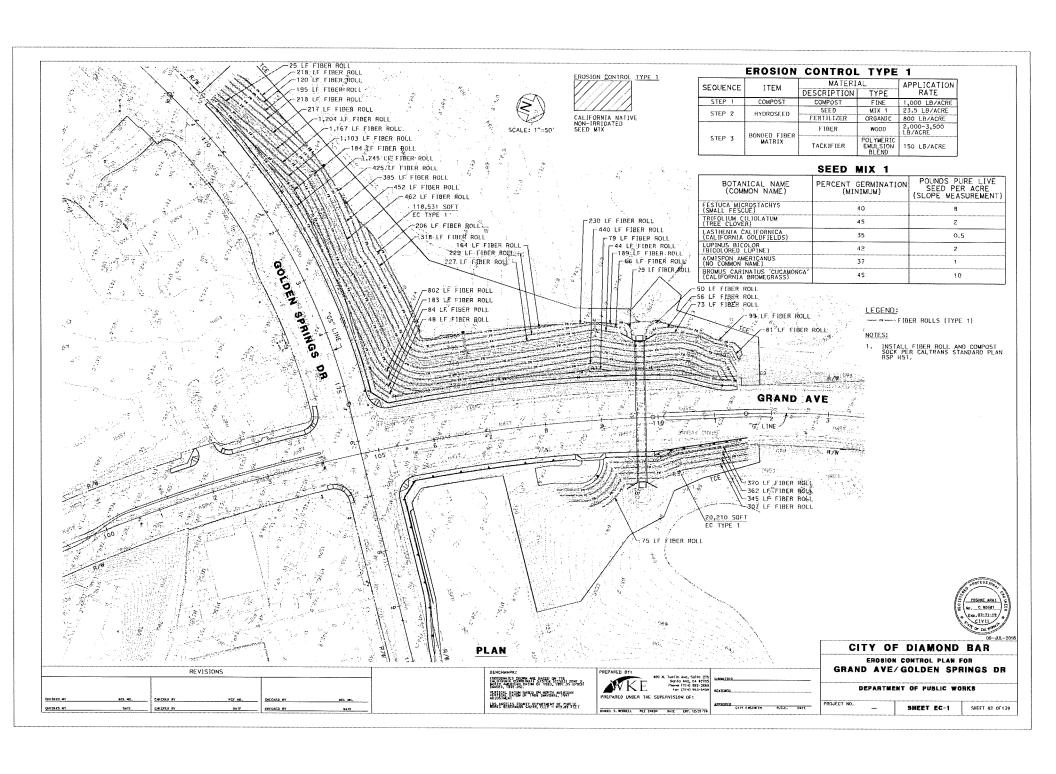


CITY OF DIAMOND BAR

- 1								PE & IRRIGATION P /GOLDEN SPF	
ļ		REVISIONS		BENCHMARK: NORIZONTAL CONTROL IS BASED ON CALTRAMS OFS POINTS 1001 AND 1002 FROM ILL CONTROL PROJECT	PREPARED BY:			/ GULDEN SPF Legend, Details, & Noti	
- 1				DONE JAN 2000.					
				COMPONATES SIDME AND BASED ON THE CALFORNIA COMPONATE SYSTEM (CCS-8) DOKE 8, 1983 NAU 11992.88 EPOCH)	PREPARED UNDER THE SUPERVISION OF:	MEXICANO .	DEPARTS	MENT OF PUBLIC W	ORKS
	OUTOMED BY RCE NO.	CHECKED BY RCE NO.	CHECKED BY ROS MO.	BENCHMARK 3B-C-74, A STANDARD DISK, DOWN 1,2'4 LEFT OF COMPENIE BASELINE RELOCATED	THEFARED UNDER THE SUPERVISION OF	APPROVED.	PROJECT NO.		
Į	STAG TA DECISION	CHECKED BY DATE	CHECKED BY DATE	STORBURN, DATED DEC. 1990.	DAYED H. TATSLAG PLA 2035 DATE EXP. 00/51/18	CITY CHECKER N.C.C. DATE		SHEET L-6	SHEET 79 OF 139







- THIS STREET LIGHTING LAYOUT EXPIRES TWO YEARS AFTER THE LATEST DATE OF
- THE LOCATION OF A STREETLIGHT MAY ONLY BE ADJUSTED UP TO 10 FEET ONLY TO AVOID AN GOSTRUCTION SUCH AS A CATCH BASIN, DRIVEWAY, ETC. ANY DEVIATION EXCEEDING 10 FEET MUST HAVE THE APPROVAL OF THE COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS. STREET LIGHTING SECTION, IF SUCH APPROVAL IS NOT OBTAINED, THE LIGHTS PROPOSED BY THIS PLAN WILL NOT BE ACCEPTED BY COUNTY LIGHTING MAINTENANCE DISTRICT.
- REVISED STREET LIGHTING PLANS SHALL BE SUBMITTED FOR ANY CHANGES IN THE MAP SUCH AS STREET ALIGNMENT, LOT OR PARCEL SIZES, BOUNDARIES, ETC.
- ALL STREETLIGHT WIRING SHALL BE UNDERGROUNDED.
- ON STREETS WHERE THE SIDEWALK AND CURB ARE GREATER THAN 6 1/2 FEET IN WIDTH, THE MAST ARMS AND BRACKETS SHALL BE PERPENDICULAR TO THE CURB FACE. THE STREETLIGHT ELECTROLIER SHALL BE PLACED 294 FROM THE CURB FACE TO THE CENTER OF THE POLE LUSE A 4-FOOT LONG MAST ARM FOR ALC OFFICE AND FOR THE POLE LUSE A 4-FOOT LONG MAST ARM FOR ALC OTHER WATTAGE, UNLESS OTHERWISE SPECIFIED.
- ON STREETS WHERE THE SIDEWALK AND CURB ARE EQUAL TO OR LESS THAN 6 1/2 FEET IN WIDTH, THE STREETLIGHT ELECTROLIERS AND PULL BOXES SHALL BE PLACED OUTSIDE OF THE STREETLIGHT ELECTROLIERS SPECIFIED. USE AN 6-FOOT LONG MAST ARM FOR ALL WATTACE, UNLESS OTHERWISE SPECIFIED.
- 7. ALL LIGHTS SHOWN ON THIS LAYOUT SHALL BE ENERGIZED PRIOR TO ACCEPTANCE OF THE LIGHTING SYSTEM TO A COUNTY LIGHTING MAINTENANCE DISTRICT.

# **DESIGN GUIDELINES**

JVALENT FOR 1200 WATT) HPSV STREETLIGHTS, THE POLE SPACING IS BASED ON TCANDLES, FOR "MAJOR INTERMEDIATE" STREETS. THE LUMINAIRE SHALL HAVE A (30) FOOT MOUNTING HEIGHT, SHALL BE (ANSI-1ES) MEDIUM, TYPE II OR TYPE JIL.

# **CONSTRUCTION NOTES**

RELOCATE EXISTING STREETLIGHT 24" BEHIND PROPOSED CURB & GUTTER (BY OTHERS)

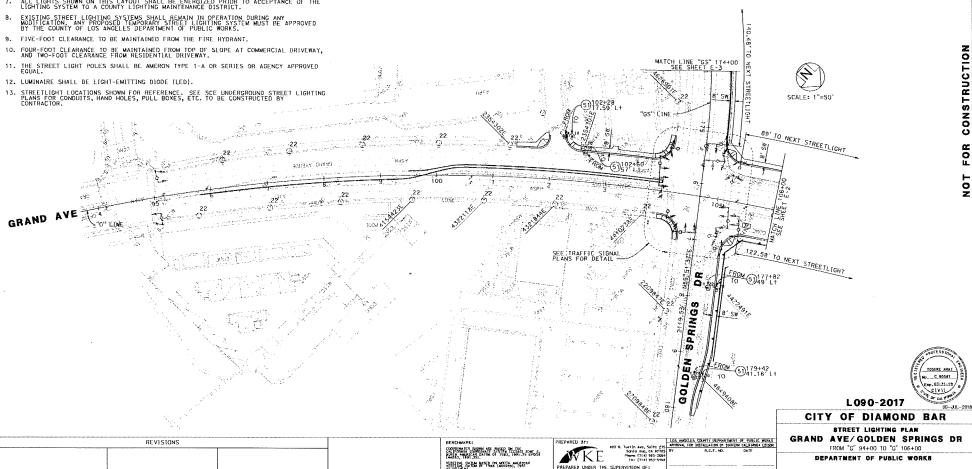
### LEGEND

- EXISTING 22,000 LUMEN HPSV STREETLIGHT ON CONCRETE POLE TO BE RELOCATED AND UPGRADED IT TO 157-WATT LED (3000K) STREETLIGHT.
- NEW LOCATION OF RELOCATED LIGHT
- c<sup>40</sup>55 EXISTING 22,000 LUMEN HPSV STREETLIGHT ON CONCRETE POLE TO BE RELOCATED AND UPGRADED IT TO 90-WATT LED (3000K) STREETLIGHT.
- NEW LOCATION OF RELOCATED STREETLIGHT.
- EXISTING 9,500 LUMEN HPSV STREETLIGHT ON CONCRETE POLE TO BE RELOCATED AND UPGRADED IT TO 41-WATT LED (3000K) STREETLIGHT.

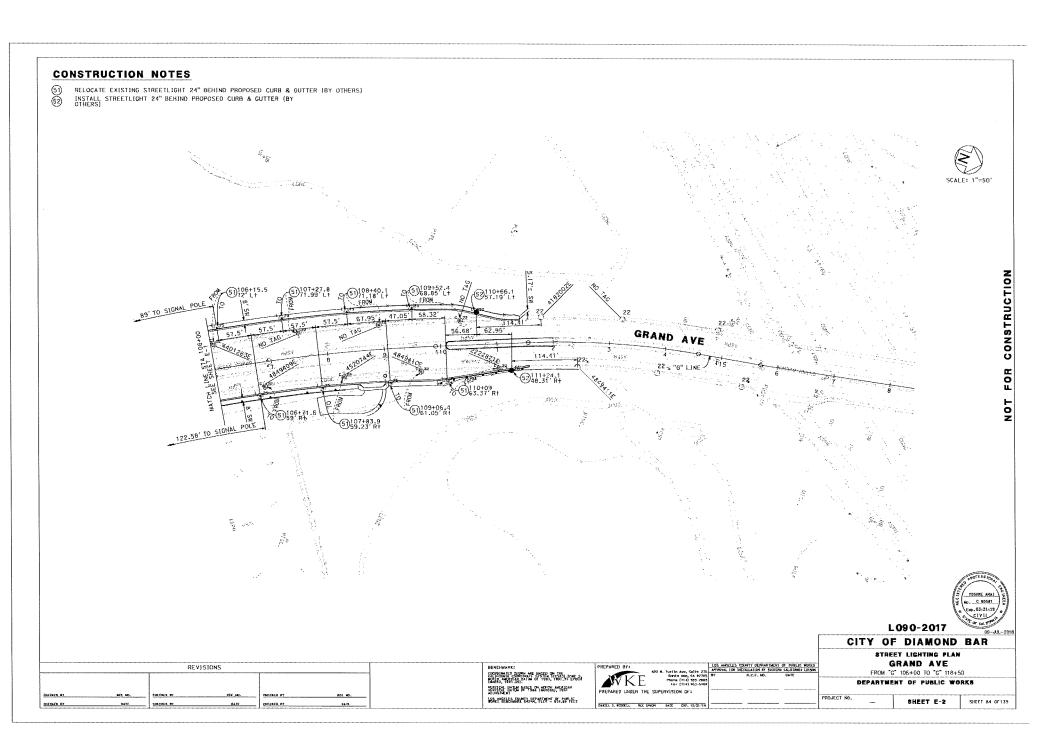
SHEET F-1

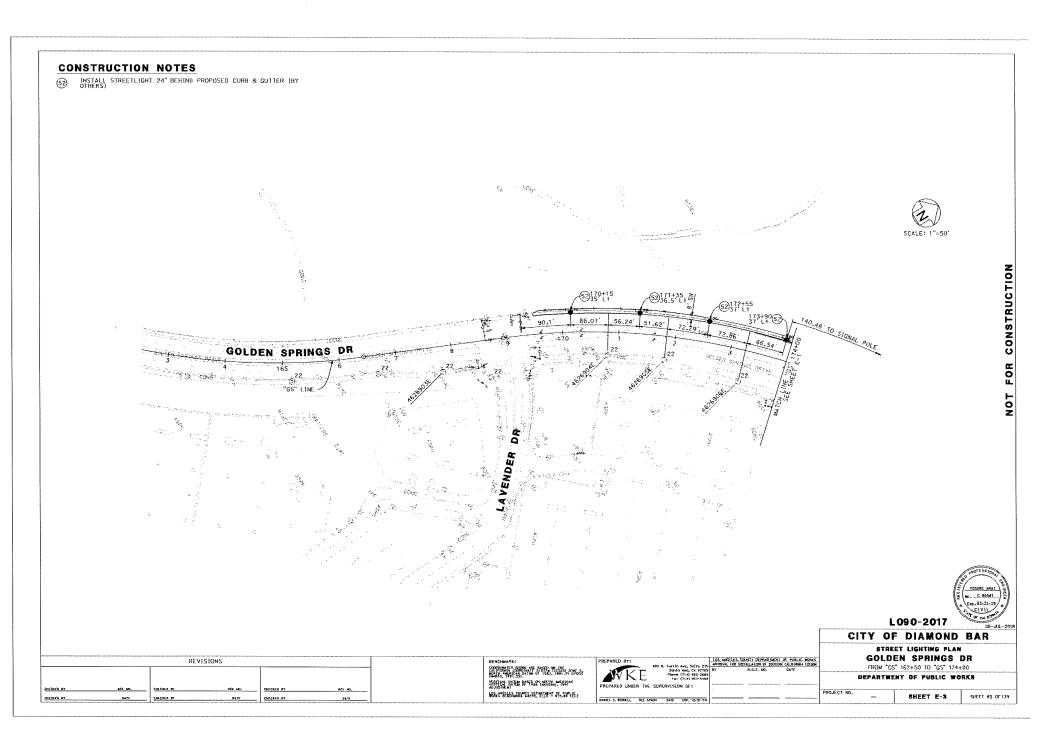
SHEET 83 OF 139

- NEW LOCATION OF RELOCATED STREETLIGHT.
- PROPOSED 90-WATT LED (3000K) STREETLIGHT ON CONCRETE POLE
  - O EXISTING STREET LIGHT

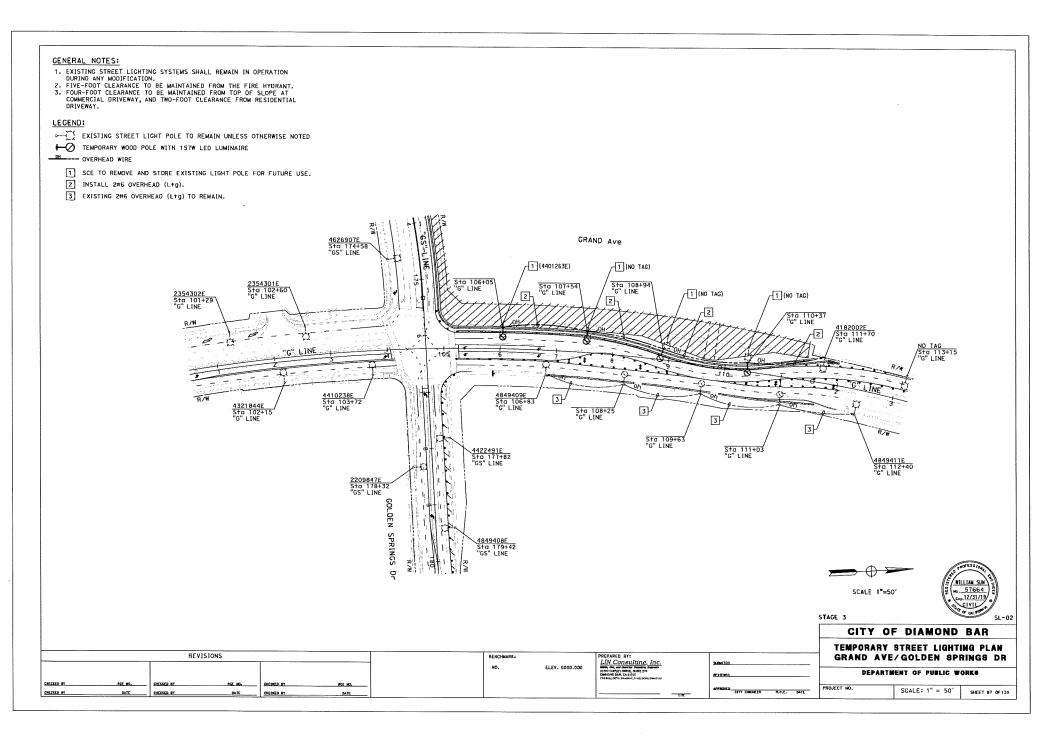


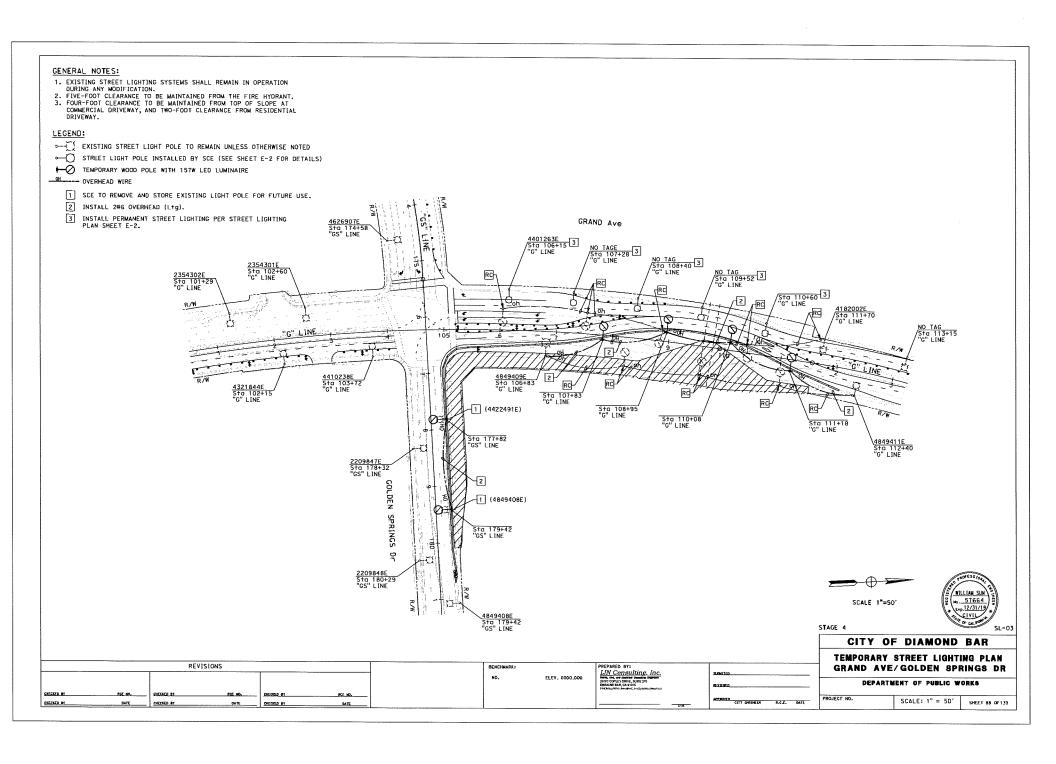
MORKET SERVER COUNTY OF THE OF THE SERVER COUNTY OF





# GENERAL NOTES: 1. EXISTING STREET LIGHTING SYSTEMS SHALL REMAIN IN OPERATION 1. EXISTING STREET CLUSTIONS STSTEMS SHALL REMAIN IN OPERATION DURING ANY MODIFICATION. 2. FIVE-FOOT LEARANCE TO BE MAINTAINED FROM THE FIRE HYDRANT. 3. FOUR-FOOT CLEARANCE TO BE MAINTAINED FROM TOP OF SLOPE AT COMMERCIAL DRIVEWAY, AND TWO-FOOT CLEARANCE FROM RESIDENTIAL DRIVEWAY. LEGEND: STREET LIGHT POLE TO REMAIN UNLESS OTHERWISE NOTED TEMPORARY WODD POLE WITH 157W LED LUMINAIRE ---- OVERHEAD WIRE 1 SCE TO REMOVE AND STORE EXISTING LIGHT POLE FOR FUTURE USE. 2 INSTALL 2#6 OVERHEAD (L+g). GRAND Ave NO TAG Sta 107+54 "G" LINE NO TAG |Sta 108+94 "G" LINE NO TAG /Sta 110+37 "G" LINE NO TAG /Sta 113+15 "G" LINE <u>4410238E</u> Sta 103+72 "G" LINE 4849409E Sta 106+83 "G" LINE (4520744E)[1]-(4B49410E) 1 Sta 108+25 "G" LINE (2222821E) 1 Sta 109+63 "G" LINE Sta 111+03 "G" LINE 2209847E Sta 178+32 "GS" LINE GOLDEN SPRINGS Dr MILLIAN SUN Ms. 57664 Exp.12/31/19 SCALE 1"=50' STAGE 2 CITY OF DIAMOND BAR TEMPORARY STREET LIGHTING PLAN REVISIONS PREPARED BY: LIN Consulting, Inc. ELEV. 0000.000 DEPARTMENT OF PUBLIC WORKS CITY EMODEER R.C.E. DAYE PROJECT NO. SCALE: 1" = 50'





- ALL MATERIAL AND WORK SHALL CONFORM TO THE 2D15 STANDARD PLANS AND SPECIFICATIONS OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- STELETICATIONS OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.

  2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT (800) 227-2600, 48 HOURS IN ADVANCE OF WORK.
- 3. OBTAIN APPROVAL FROM ENGINEER IN THE FIELD FOR EXACT EQUIPMENT LOCATION PRIOR TO FINAL PLACEMENT.
- 4. ALL PEDESTRIAN AND VEHICULAR DISPLAYS SHALL BE LED TYPE PER THE SPECIAL PROVISIONS.
- 5. VIDEO DETECTION ZONES SHOWN ZONES WITH CHANNEL DESIGNATIONS FOR ASSIGNING DETECTOR DUTPUTS TO THE CONTROLLER.
- 6. NEW CONDUIT SHALL BE TYPE I. SEE PLAN FOR SIZES.
- 7. ALL NEW PULL BOXES SHALL BE No. 5 UNLESS SHOWN OTHERWISE.

- 7. ALL NEW PULL BOXES SHALL BE NO. 5 UNLESS SHOWN OTHERWISE.
  8. AT THE TIME OF THE SIGNAL TERROON, ALL HIS PRAME BUT PURL SHALL OPERATE TO THE SATISH ACTION OF THE ENGINEER. THE STEEL SPECIFICATIONS AND TO THE SATISH ACTION OF THE ENGINEER. THE THE STEEL SPECIFICATIONS AND TO THE SATISH ACTION OF THE ENGINEER. THE THE STEEL SHOWN ON PLAN. CENTER VIDEO DETECTION ZONES IN THE TRAVILED PORTION OF THE LANE UNLESS SHOWN OF PLAN. CENTER VIDEO DETECTION LINE DETECTION ZONES SHALL BE PLACED O'BEHIND THE CROSSWALK OR LIMIT LINE UNLESS OTHERWISE INDICATED.
  10. ALL PEDESTRIANS HEADS SHALL BE TYPE "" WITH INTERNATIONAL SYMBOL OF MAN AND HAND WITH PEDESTRIAN COUNTDOWN FEATURE MANUFACTURED BY SALL PEDESTRIANS SIGNAL MOUNTINGS SHALL BE LAWSHEN. UNLESS OTHERWISE NOTED ON THE PLAN, AND SHALL BE PROVIDED BY THE CONTRACTOR. PEDESTRIAN PUSH BUTTONS SHALL BE TYPE B" POLARA BULLDOG III WITH POLARA OFTION C, COUNTDOWN SIGNS AND SHALL ME TADA REQUIREMENTS.

  11. ALL VEHICLE SIGNAL MEADS, INCLUDING PROGRAMMED VISIBLITY HEADS SHALL HAVE BE ERROFOLD WHELL HEADS MOUNTED ON TYPE 1-A POLES SHALL HAVE BE ERROFOLD WHELL HEADS MOUNTED ON TYPE 1-A POLES SHALL HAVE BE ERROFOLD WHELL HEADS MOUNTED ON TYPE 1-A POLES SHALL HAVE BE ERROFOLD WHELL HEADS MOUNTED ON TYPE 1-A POLES SHALL HAVE BECKED ON THE PLAN FOUNTED HEADS WHEN THE PROVIDED BY THE CONTRACTOR.

  12. (XXXXI) JUDICATES, LODE, ASSIGNMENT IN THE CONTROLLER, CABINET, EACH
- 12. XXXXI INDICATES DEP ASSIGNMENT IN THE CONTROLLER CABINET, EACH ESSIGNMENT SHALL HAVE A SEPARTE LEAD-IN CABLE TO THE CONTROLLER. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTICE ON THE PLANS.
- 13. CONTRACTOR SHALL REPLACE ALL EXISTING PULL BOXES IF DAMAGED. (SEE SPECIAL PROVISIONS)
- 14. ALL TRAFFIC SIGNAL STANDARDS, VEHICLE AND LUMINAIRE MAST ARMS SHALL BE MANUFACTURED BY VALMONT INDUSTRIES OR EQUIVALENT. ALL VEHICLE AND LUMINAIRE MAST ARMS ARE STRAIGHT.
- AND LUMINAIRE MAST ARMS ARE STRAIGHT.

  15. ALL PAINT SHALL BE FURNISHED BY THE CONTRACTOR. PAINT SHALL BE CLOSS FINISH. THE CONTRACTOR SHALL FURNISH A COLOR CHIP TO THE ENGINEER FOR APPROVAL. NEW TRAFFIC SIGNAL EQUIPMENT TO BE PAINTED SHALL INCLUDE VEHICLE HEAD HOUSINGS, PEDESTRIAN SIGNAL HEAD HOUSINGS, BACK FACES OF BACKPLATES, INTERNALLY ILLUMINATED STREET NAME SIGN FRAMES, LUMINAIRES, PEDESTRIAN PUSH BUTTON UNITS, VIDEO DETECTION CAMERA HOUSINGS, COLVEN CABINETS PRIOR TO MAINTE, STREET SHAME STRAIGHT OF THE CONTRACT O
- 16. SEE CIVIL PLANS FOR PEDESTRIAN RAMPS.
- 10. TRAFFIC SIGNAL CONDUITS SHALL BE INSTALLED BY THE METHOD OF JACKING, BORING, DIRECTIONAL BORING OR TRENCHING WITH MINIMUM 36" OF COVER IN THE PAYEMENT AND MINIMUM 24" OF COVER IN THE SIGEWALK UNLESS OTHERWISE NOTED (SEE STANDARD PROVISIONS).
- 18. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE OPERATION OF THE TRAFFIC SIGNAL DURING CONSTITUTION BY PROVIDING TEMPORARY SIGNAL STANDARDS AND TEMPORARY OVERHEAD WIRING AS NECESSARY WITH NO ADDITIONAL COMPRENSATION.
- TEMPORARY OVERHEAD WIRING AS NECESSARY WITH NO ADULTIONAL COMPENSATION ALL CAST—IN DRILLED HOLE FOUNDATIONS SHALL BE PRE-PRILLED AND BACKFILLED WITH ONE SACK SLURRY, CURE FOR A MINIMUM OF ONE DAY CAST—IN-DRILLED HOLE FOUNDATIONS LOCATED WITHIN 2' OF AM EXISTING GAS LA PRE-CONSTRUCTIONAL FOUNDATION CONTRACTOR SHALL HAND HIGH FOUNDATION CONTRACTOR SHALL HAND HIGH FOUNDATION CONTRACTOR SHALL HAND HIGH FOUNDATION AND MAINTAIN 6-INCHES OF SAND AROUND THE GAS LINE AND INSTALL SONO TUBE FOR THE ENTIRE DEPTH OF HOLE PRIOR TO INSTALLATION OF REINFORCED CONCRETE. ALL VOID AREAS AROUND THE FOUNDATION SHALL BE BACKFILLED WITH SAND.
- 20. ALL NEW SIGNS SHALL HAVE THE RETROREFLECTIVE SHEETING AND PROTECTIVE FILM.
- PROTECT IN PLACE ALL EXISTING ABOVE CROUND SIGNAL AND COMMUNICATION CABINETS AND SERVICE ENCLOSUME AND INTERCONNECT CONDUITS CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL DAMAGED ITEMS WITH NO ADDITIONAL COMPENSATION.
- CONTRACTOR SHALL PAINT ALL SIGNAL EQUIPMENT. COMMUNICATION CABINET, SERVICE CABINET AND CONTROLLER TO MATCH POLE COLORS RAL# 7011 EISENGRAU JRON GREY.
- 23. CONTRACTOR SHALL ADJUST ALL PULL BOXES TO GRADE.

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# POLE AND EQUIPMENT SCHEDULE

L				***************************************										
		STANDAR	D		VEH S	IG MTG	COUNTDOWN	A	PS	LED	USNS	LOCA	TION	REMARKS
No.	TYPE	HEIGHT	SMA	LMA	MAST ARM	POLE	PED SIGNAL	ø	ARROW	LUM	11343	Α	В	REMARKS
▲	*	30′	40'	15'	2-MAS	SV-1-T SV-1-T	SP-1-T	6	-	165W	Grand Ave (R)	7′	2.5'	A B POLE INSTALLED IN STAGE 4
®	**	30′	-	15'	-	SV-2-TA	SP-1-T	8	-	165W	as .	8.7	5.0'	A POLE INSTALLED IN STAGE 4
©	×××	30′	651	15'	3-MAS	SV-1-T	SP-1-T	8	-	165 <b>W</b>	Golden Springs Dr (R)	10.5	2.5	A B POLE INSTALLED IN STAGE 5
0	××	30'	-	15'	-	SV-2-TA	SP-1-T	2	->-	165W	-	10'	2.5'	A POLE INSTALLED IN STAGE 5
Œ	××××	30'	35′	15'	2-MAS	SV-1-T	SP-1-T	2	-4-	165W	Grand Ave	7'	5.5'	A B POLE INSTALLED IN STAGE 3
(Ē)	**	30′	-	15'	-	SV-1-T	SP-1-T	4	->-	165W	-	2.5	2.5	A POLE INSTALLED IN STAGE 3
©	×××××	30′	55'	15'	3-MAS	SV-1-T	SP-1-T	4	-	165W	Golden Springs Dr	8′	6′	A B POLE INSTALLED IN STAGE 1
Θ	**	30′	-	15'	-	SV-2-TA	SP-1-T	6	-	165W	-	14'	6′	A POLE INSTALLED IN STAGE 2

- 1. ALL EQUIPMENT IS NEW EXCEPT WHERE NOTED : (R) = RELOCATE
  2. ALL POLES ARE DECORATIVE TYPE AND SHALL MEET CALTRANS STANDARD PLANS 2015.
- ALL POLES AND EQUIPMENT (VEHICLE SIGNAL HEADS AND BACKPLATE, PEDESTRIAN HOUSING AND MOUNTING, PUSH BUTTON HOUSINGS) SHALL BE COLORED RAL# 7011 EISENCRAU IRON GREY.
- A EXACT POLE LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- B IISNS SHALL BE REUSED WITH NEW PAINT. SAME AS DECORATIVE POLE.
- \* CATALOG # FOR THE DECORATIVE POLE. SEE STANDARD TECHNICAL PROVISIONS.

- \* BCNH02640-FL4S-26-4-100-405MA-15LMA-K828-250HPS-FPGV

  \* BCNH01735-FL4S-15TS-15LMA-K828-250HPS-FPGV

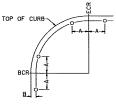
  \* BCNH02640-FL4S-61-5-100-65SMA-15LMA-K828-250HPS-FPGV

  \* BCNH02640-FL4S-24-4-100-35SMA-15LMA-K828-250HPS-FPGV \*\*\*\*\* BCNHQ2640-FL4S-29-5-100-55SMA-15LMA-K828-250HPS-FPGV

## CONDUIT AND CONDUCTOR SCHEDULE

CABL	E 5	SCHEDULE				CO	NDU E	T RI	JN N	UMBE	R AI	ND S	IZE			
CABLE TYPE	S T D	PHASE	Δ	Æ	ß	A	A	Æ	A	◬	৷	℩	$\Psi$	Λà	Δ	A
VEH-PED/	(A)	3,4,8	<u>-</u> -	-/-	-/-	1/1	1/1	-/-	-/-	1/1	1/1	7	7-	7	7-	7.
12CSC /	(Ā)	8P,OLC	-	7	7	1/1	17	-/-	7	1/	1	-	7	7	7	=
/	®	5,6,6P,OLB 8	7	7	1/1	1/1	1/1	-/:	-/-	1/1	1/1	-/-	7	-/-	7.	-7-
/	0	2,5,2P		1/1	1/1	1/1	1/1	-	-/-	1/1	1/1	-/-	7	-/-	7.	7.
_ /		7,8,8P,OLC 2	1	1/1	1	1	1/1	-/-	7.	1/1	1	-/-	=/-	-/-		7-
/		4,7,4P,OLA 2	<u> </u>	-	=/-	=/-	=/-	1/1	1/1	1/1	1/1	-/-	1	-/-	-/-	7
/		1,27	-	7	7	-	5	7		1	1	-/-	7	7	7	7
/	(G)	1,6,6P,OLB 4	-	-/-	-	-	=7-	7.	<u></u>	1/1	1	-/-	-/-	-/-	=	=
PPB 3CSC	$\oplus$	3,4,4P,OLA 6	-	7-	-/-	-	1	=/-	-	1/1	1/1	7	-	-/-	=	<u>-</u>
		TOTAL	1	2/2	3/3	5/4	6/5	1	3/2	9/1	9/8	-	5/-	-	=	-
AWG	X	CIRCUIT						-								
#14		APS														
#12		IISNS	-	2	2	2	2	2	2	2	-	-	-	-	-	-
#10		LIGHTING	2	2	2	2	2	2	2	2	-	-	-	-	-	-
#8		SERVICE	-	-	-	-	-	-	-	-	-	2		-	-	-
#6		SERVICE	-	-	-	-	-	-	-	-	-	2	-	-	-	-
		LOOP DLC				~										
PHASE 2			-	-	-	-	-	-	1	1	1	-	-	-	~	-
PHASE 4				-	-	-	1	-	-	1	1	-	-	-	-	1
PHASE 6			-	-	1	1	1	l -	-	1	1	-	ļ -	<del>-</del>	-	-
PHASE 8	Г		1	1	1	1	1	-	-	1	1	-	-	-	-	-
		TOTAL	1	1	2	2	3	-	1	4	4	-	-	-	-	1
VIDEO C	AME	RA CABLE	-	1	1	2	2	1	1	4	4	-	-	-	-	-
VIDEO C	AME	RA POWER	-	i	1	2	2	1	1	4	4	-	-	-	-	-
24 SMFO			-	-	-	-	-	-	-	-	-	-	1	1	1	-
48 SMFO			-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCTV CA	BLE		-	-	-	1	1	1-	-	1	1	-	1-	-	-	l -
	СО	NDUIT SIZE	2"	3"	3"	4"	4"	2"	3"	2-4"	2-4	2"	3"	3"	3"	2"
	СО	NDUIT FILL (%)	15	15	20	19	22	19	15	16 19	17 16	9	3	3	3	3

ALL CONDUIT AND CONDUCTORS ARE NEW.



POLE LOCATION DETAIL



### CITY OF DIAMOND BAR

TRAFFIC SIGNAL MODIFICATION PLAN FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

ROJECT NO. 0 C C 0416

SCALE: NO SCALE SHEET 89 0F139

		R	EVISIONS			
MECKED BY	MOE NO.		RCE HOL		RCE NO.	l
		SHECKED BY		CHECKED BY		
HECKED BY	BATE	CHEEKED BY	DATE	CHECKED BY	DATE	1

ELEV. 0000.000

BENCHWARK:

ND.

REPARED BY LIN Consulting, Inc.

2102 CONSULTING, SUITE 270

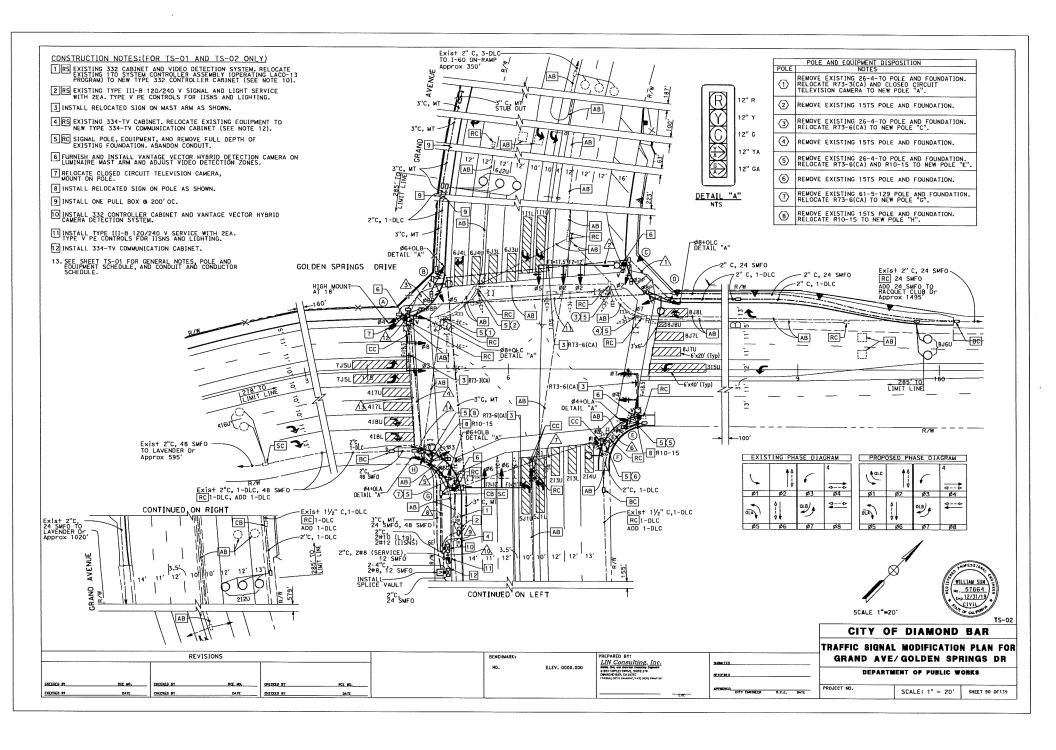
2102 CONSULT DRIVE, SUITE 270

DRIVEN CONTENT SHARE, SUITE 270

DRIVEN CONTENT SHARE, SUITE 270

NEVIENEO

CITY DADBETS



- ALL MATERIAL AND WORK SHALL CONFORM TO THE 2015 STANDARD PLANS AND SPECIFICATIONS OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- 2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT (BOD) 227-26D0, 48 HOURS IN ADVANCE OF WORK.
- 3. OBTAIN APPROVAL FROM ENGINEER IN THE FIELD FOR EXACT EQUIPMENT LOCATION PRIOR TO FINAL PLACEMENT.
- 4- ALL PEDESTRIAN AND VEHICULAR DISPLAYS SHALL BE LED TYPE PER THE SPECIAL PROVISIONS.
- SPECIAL PROVISIONS.

  VIDEO DETECTION ZONES SHOWN ON PLAN DENOTE DETECTION ZONES WITH CHANNEL DESIGNATIONS FOR ASSIGNING DETECTOR OUTPUTS TO THE CONTROLLER.
- VIDEO DETECTION ZONES SHALL BE AS SHOWN ON PLAN CENTER TIDEO DETECTION ZONES IN THE TRAVELED PORTION OF THE LANE UNLESS SHOWN OTHERWISE. LIMIT LINE DETECTION ZONES SHALL BE PLACED D'BEHIND THE CROSSWALK OR LIMIT LINE DULESS OTHERWISE INDICATED.
- 7. NEW CONDUIT SHALL BE TYPE I. SEE PLAN FOR SIZES.
- B. ALL NEW PULL BOXES SHALL BE No. 5 UNLESS SHOWN OTHERWISE.
- B. ALL NEW POLES BOXES SHALL BE NO. 5 UNLESS SHOWN DIMENTISE.

  9. ALL NEW POLESTRIAN SIGNAL SYSTEMS SHALL BE ACCESSIBLE PEOESTRIAN SYSTEMS (APS) WITH INTERNATIONAL SYMBOL OF MAN AND HAND WITH PEDESTRIAN COUNTDOWN FEATURE MANDFACTURED BY "DIALIGHT" PART NO. 43D-6479-001X OR "GE GIT" PART NO. PS7-CF1-26A.

  10. ALL VEHICLE SIGNALS SHALL HAVE 12" LENSES, TUNNEL VISORS, AND BACKPLATES, ALL SIGNAL INDICATIONS SHALL BE PROVIDED WITH LED UNITS. ALL MAST ARK MODINTED VEHICLE HEADS OR FIVE-SECTION VEHICLE HEADS MOUNTINGS FOR THE ACCESSMALL BY PROVIDED WITH LED WOUNTINGS FOR THE MEADLES SHALL HAVE BOXEPLATES, ALL REQUIRED MOUNTINGS FOR THE WARDLESS SHALL BE PROVIDED BY THE CONTRACTOR.
- MOUNTIANS FOR NEW MEADS SHALL BE PROVIDED BY THE CONTRACTOR.

  (XXXX) NIDICATES LOOP ASSIGNMENT IN THE CONTROLLER CABINET. EACH
  ASSIGNMENT SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROLLER.
  ALL MATERIALS AND EQUIPMENT SHALL BE NEW, FURNISHED AND INSTALLED BY
  THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS.
- 12. CONTRACTOR SHALL REPLACE ALL EXISTING PULL BOXES IF DAMAGEO. (SEE SPECIAL PROVISIONS)
- 13. ALL TRAFFIC SIGNAL STANDARDS, VEHICLE AND LUMINAIRE MAST ARMS SHALL BE MANUFACTURED BY VALMONT INDUSTRIES OR EQUIVALENT. ALL VEHICLE AND LUMINAIRE MAST ARMS ARE STRAIGHT.

  14. ALL PAINT SHALL BE FURNISHED BY THE CONTRACTOR. PAINT SHALL BE GLOSS FINISH. THE CONTRACTOR SHALL FURNISH A COLOR CHIP TO THE HORINEER FOR APPROVAL, NEW TRAFFIC SIGNAL FURNISH A COLOR CHIP TO THE HORINEER FOR APPROVAL, NEW TRAFFIC SIGNAL EQUIPMENT TO BE PAINTED SHALL INCLUDE VEHICLE HEAD HOLISINGS, BACK FACES OF BACKPLATES, INTERNALLY ILLUMINATED STREET NAME SIGN FRAMES, LUMINAIRES, CONTROLLER OF THE PROPERTY OF THE NEW SIGNAL POLIS AND APPARATUS SHALL BE PAPILED A RUST INHIBITOR PRIVER TO COVER ALL EXTERIOR SUPPRESSED AND THE PROPERTY OF THE NEW SIGNAL MAST ARM SIGNS SHALL BE RE-USED AND REMOUNTED TO THE NEW SIGNAL MAST ARM.
- SEE CIVIL PLANS FOR PEDESIRIAN KAMPS.

  TRAFFIC SIGNAL CONDUITS SHALL BE INSTALLED BY THE METHOD OF JACKING, BORING OF TRANSPORT OF THE METHOD OF JACKING, BORING WITH MINIMAM 36 OF COVER IN OTHERWISE NOTED (SEE STANDARD PROVISIONS).

  CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE OPERATION OF THE TRAFFIC SIGNAL DURING CONSTRUCTION BY PROVIDING TEMPORARY SIGNAL STANDARD SAND TEMPORARY OVERHEAD WIRING AS NECESSARY WITH NO ADDITIONAL COMPENSATION. SEE STAGE TRAFFIC SIGNAL PLANS.
- SEE STAGE TRAFFIC SIGNAL PLANS.

  ALL CAST-IN ORILLED HOLE FOUNDATIONS SHALL BE PRE-DRILLED AND BACKFILLED WITH ONE SACK SLURRY, CURED FOR A MINIMUM OF ONE DAY CAST-IN-DRILLED HOLE FOUNDATIONS LOCATED WITHIN 2 OF AN EXISTING GAS LINE CONTRACTOR SHALL NOTIFY FILED ENGINEER IN ADVANCE TO SCHEDULE WITHIN 2 OF AN EXISTING GAS LINE CONTRACTOR SHALL NOTIFY FILED ENGINEER IN ADVANCE TO SCHEDULE WITH A CONTRACTOR SHALL NOTIFY FILED FOUNDATION OF THE MORE AND MAINTAIN OF THE STATE OF THE STA
- 19. ALL NEW SIGNS SHALL HAVE THE RETROREFLECTIVE SHEETING AND PROTECTIVE FILM. PROTECT IN PLACE ALL EXISTING ABOVE GROUND SIGNAL AND COMMUNICATION CABINETS AND SERVICE ENCLOSURE AND INTERCONNECT CONDUITS. CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL DAMAGED ITEMS WITH NO ADDITIONAL COMPENSATION.
- 21. CONTRACTOR SHALL PAINT ALL SIGNAL EQUIPMENT. COMMUNICATION CABINET, SERVICE CABINET AND CONTROLLER TO MATCH POLE COLORS RAL# 7011 EISENGRAU IRON GREY.
- 22. CONTRACTOR SHALL ADJUST ALL PULL BOXES TO GRADE.

### POLE AND EQUIPMENT SCHEDULE

	s	TANDARD			VE+	SIG MTG	COUNTDOWN	,	PS	HPS	HONE	LOCA	TION	
No.	TYPE	HEIGHT	SMA	LMA	MAST ARM	POLE	PED SIGNAL	Ø	ARROW	LUM	IISNS	А	В	REMARKS
⑧│	26-4-70	30′	35′	6′	Z-MAS	SV-1-T SV-1-T	SP-1-T	6	NON-ADA PBA	200W	Grand Ave	7'	2.5'	A
⑱	15TS	30′	-	12'	-	SV-2-TA	SP-1-T	в	-	250W	-	8'	2.5'	Α
©	26-4-7D	301	45'	12'	2-MAS	SV-1-T	SP-1-T	В	-	250W	Golden Springs Dr	14'	2.5'	A
0	1575	30′	-	12'	-	SV-2-TA	SP-1-T	2	-	200W	-	11'	2.5'	A
(E)	26-4-7D	301	35′	12'	2-MA5	SV-1-T	SP-1-T	2	AES AGA-HON	2DOW	Grand Ave	В'	5.5'	A
(P)	15TS	30'	-	12'	-	SV-1-T	SP-1-T	4	NON-ADA PRA	200W	-	12'	2.5	Ā
©	**** (N)	3D'	55′	15'	3-MAS(N)	SV-1-T(N)	SP-1-T(N)	4	(N)	(L)165W(N)	Golden Springs Dr (R)	8'	6′	AB
(9)	15TS (T)	30'	-	4'	-	SV-2-TA(T)	_	6	-	(L)165W(T)		-	-	A

- 1. ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED : (N) = NEW, (R) = RELOCATE, (L) = NEW LED LUMINAIRE, (T) = TEMPORARY
- 2. ALL POLES ARE DECORATIVE TYPE AND SHALL MEET CALTRANS STANGARD PLANS 2015 EXCEPT AS NOTED.
- ALL POLES AND EQUIPMENT (VEHICLE SIGNAL HEADS AND BACKPLATE, PEDESTRIAN HOUSING AND MOUNTING, PUSH BUTTON HOUSINGS) SHALL BE COLORED RAL# 7011 EISENGRAU JRON GREY.
- A EXACT POLE LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- B EXISTING IISNS SHALL BE REUSED WITH NEW PAINT. SAME AS DECORATIVE POLE.

- CATALOG # FOR THE DECORATIVE POLE. SEE STANDARD TECHNICAL PROVISIONS.

  \* BCNN02640-FL4S-26-4-10D-40SMA-15LMA-K82B-250HPS-FPGV

  \*\*\*B CNN10735-FL4S-15TS-15LMA-K82B-250HPS-FPGV

  \*\*\*\*B BCNN02640-FL4S-61-5-10D-65SMA-15LMA-K82B-250HPS-FPGV

  \*\*\*\*B BCNN02640-FL4S-24-4-10D-35SMA-15LMA-K82B-250HPS-FPGV

  \*\*\*\*\*B BCNN02640-FL4S-29-5-100-55SMA-15LMA-K82B-250HPS-FPGV

# CONDUIT AND CONDUCTOR SCHEDULE

12CSC / 📵	3,4,8,8P 0,5,6 0,2,5,2P 0,7,8,8P 0,4,7,0LA	Z	<b>⊉</b> 2/1 1/1	<u></u>	<u> </u>	<u>A</u>	A	A	Æ	҈Ѧ	Δ	$\Phi$	Λà	A	1/4	B	ΛÀ
PPB 3cSc H  AWG SCSC #112 #10	5,6 2,5,2P 7,8,8P 4,7,0LA	Z	2/1	2/-	<u>Z</u>	2/					. 1	. 1			_	2.2	45
B   C   C   C   C   C   C   C   C   C	2,5,2P 07,8,8P 4,7,0LA 1,2P	Z	1	1/1		v -	3/-	2/_	2/_	<u></u>	=	-	= _	-	<del>-</del>	<u>-</u>	57.
PPB G 3CSC H  AWG 5CSC #12 #10	7,8,8P 04,7,0LA 01,2P	1-7	-/			1/1	1	1/1	1/1	-/-	7	7	-	-	-/-	-/-	7
PPB 3cSc H  AWG  5cSc  #12  #10	1,7,0LA	, -/	v -	5-	5/	<i>-</i>	1	1	1	1/1	1/1		7		1	1	5
PPB 3CSC H  AWG 5CSC #12 #10	)1,2P		<u>-</u>	<u>-</u>	-	7	1	1	1	1/1	1/1		7	1	1	1	5
PPB 3CSC H  AWG 5CSC #12 #10	)	7-	-	7		5/-	1	1		1	1	1					5
AWG 5CSC #12 #10		7	5/-	7	<u>-</u>	7.	1/-	1/2	1/2	1			1/	-	-	-/-	5
AWG 5CSC #12 #10	1,6	15/	7-	<u>-</u>	<u>-</u>	<u>-</u>	-	1/-	1/-	-/-	7	-	-/	-/-	-/-	-/-	5
AWG 5CSC #12 #10	3,4,0LA	1-/-	7	<u>-</u>	1/2	1/-	1/	1/-	1/-	-	7	7	-/	-/-	-/-		5
5CSC #12 #10	TOTAL	1	3/1	3/1	1	47	8/4	9/4	9/4	4/3	4/3	3/1	1/	2/2	2/2	3/2	1
#12	CIRCUIT	T					•		·	~~	,	·	·	·		·	
#10	APS	-	-	-	- 1	-	-	-	-	-	-	-	-	-	-	-	-
	I I SNS	-	2	2	-	2	2	2	-	2	2	2	-	2	2	2	-
#8	LIGHTING	2	2	2	2	2	2	2	-	2	2	2	2	2	2	2	2
	SERVICE	Τ-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
#6	SERVICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LOOP DLC																
PHASE 2		-	-	-	-	-	2	2	2	2	- 1	-	-	-	-	-	-
PHASE 4		-	-	Ι-	-	2	2	2	2	-	-	-		-	-	-	-
PHASE 6		2	2	2	-	2	2	2	2	-	-	-	-	-	-	-	-
PHASE 8		-	-	-	-	-	2	2	2	2	2	-	-	2	2	-	-
	TOTAL	2	2	2	-	4	В	В	8	4	2		~	2	2	-	-
VIDEO CAM	ERA CABLE	-	1	1	-	1	3	4	4	2	2	1	-	1	1	1	-
VIDEO CAME	MERA POWER	-	1	1	-	1	3	4	4	2	2	1	-	1	1	1	-
24 SMFO		-	-	-	-	-	-	-	-	1	1		-	1	1	1	-
48 SMFO		T-	-	~	-	1	-	-	-	-	-	-	-	-	-	-	-
CCTV CABL	.E	-	1	1	-	1	1	1	1	-	-	-	-	-	-	-	-
CC	ONDUIT SIZE	(3")	3"	ОН	ОН	ОН	2-3"	2-4"	2-4"	ОН	ОН	3"	(3")	ОН	ОН	3"	(3"
CC	0110011 3122																

ALL CONDUIT AND CONDUCTORS ARE NEW, UNLESS INDICATED OTHERWISE. (#) = EXISTING

ELEY, 0000,000

PREPARED BY:

LIN Consulting, Inc.

NYTHE

CITY ENGINEER R.C.E. DATE

BENCHMARK

NO.

POLE LOCATION DETAIL

TOP OF CURB-

WILLIAM SU 57664 12/31/19<sub>/</sub> TS-03

STAGE	1

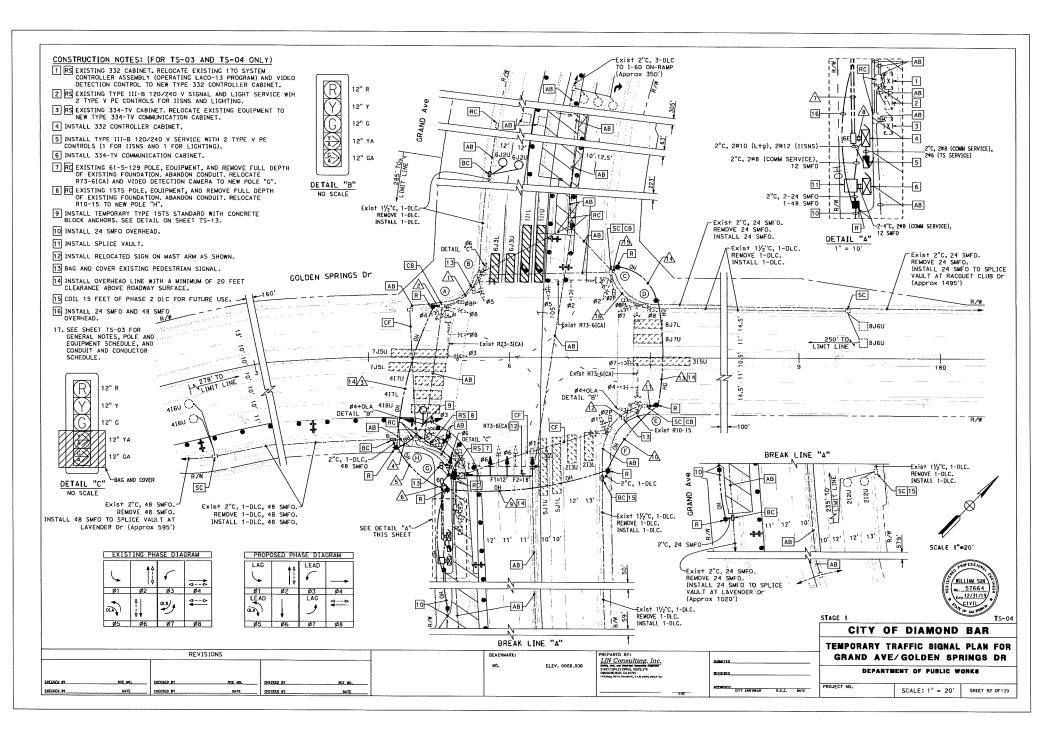
CITY OF DIAMOND BAR

TEMPORARY TRAFFIC SIGNAL PLAN FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PURILC WORKS

PROJECT NO. SCALE: NO SCALE SHEET 91 OF 139

	REVISIONS		Г
SHEGRED BY NO	SHISKED BY RGE NO.	DHECKED BY MCE NO.	
CHECKED BY DATE	CHECKED BY DATE	CHECKED SY DATE	



- 1. ALL MATERIAL AND WORK SHALL CONFORM TO THE 2015 STANDARD PLANS AND SPECIFICATIONS OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
  2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE HAND DIG FOUNDATIONS UNTIL CLEAR OF GREEN CONTRACTOR STANDARD UNDERGROUND SERVICE ALERT AT (80D 227-2600, 48 HOURS IN ADVANCE OF WORK.
- 3. OBTAIN APPROVAL FROM ENGINEER IN THE FIELD FOR EXACT EQUIPMENT LOCATION PRIOR TO FINAL PLACEMENT.
- 4. ALL PEDESTRIAN AND VEHICULAR DISPLAYS SHALL BE LED TYPE PER THE SPECIAL PROVISIONS.
- SPECIAL PROVISIONS.

  5. VIDEO DETECTION ZONES SHOWN

  1. VIDEO DETECTION ZONES SHOWN

  2. VIDEO DETECTION ZONES SHOWN

  2. VIDEO DETECTION ZONES SHOWN

  2. VIDEO DETECTION ZONES SHALL BE AS SHOWN ON PLAN CENTER VIDEO DETECTION

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  2. VIDEO DETECTION ZONES SHALL BE AS SHOWN ON PLAN CENTER VIDEO DETECTION

  2. VIDEO DETECTION ZONES SHOWN OF LIMIT

  LINE DIVIESS OTHERWISE INDICATED.

  3. NEW CONDILL'S SHALL BE TYPE.
- NEW CONDUIT SHALL BE TYPE I. SEE PLAN FOR SIZES.
- B. ALL NEW PULL BOXES SHALL BE No. 5 UNLESS SHOWN OTHERWISE.
- B. ALL NEW PULL BOXES SHALL BE NO. 5 UNLESS SHOWN OTHERWISE.

  9. ALL NEW PEDESTRIAN SIGNAL SYSTEMS SHALL BE ACCESSIBLE PEDESTRIAN

  SYSTEMS (APS) WITH INTERNATIONAL SYMBOL OF MAN AND HAND WITH
  PEDESTRIAN COUNTDOWN FEATURE MANUFACTURED BY "DIALIGHT" PART NO.

  430-6479-001X OR "GE GT1" PART NO. PSY-CFF1-26A.

  10. ALL VEHICLE SIGNALS SHALL HAVE 12" LENSES, TUNNEL VISORS, AND
  BACKPLATES, ALL SIGNAL INDICATIONS SHALL BE PROVIDED WITH LED UNITS.
  ALL MASS ARM MOUNTED VEHICLE HEADS OF FIVE-SECTION VEHICLE HEADS
  MOUNTINGS "OF FEW HEADS SHALL HAVE DACKFATES. ALL REQUIRED

  MOUNTINGS "OF FEW HEADS SHALL HAVE DACKFATES. ALL REQUIRED

  MOUNTINGS "OF FEW HEADS SHALL HAVE DACKFATES."

  11. XXXXI NOICATES LOPP ASSIGNMENT IN THE CONTRACT BAH

  LED THE CONTRACTOR SHALL HAVE SEPARATE FOR THE CONTRACT BAH

  ALL MATERIALS AND EQUIPMENT SHALL BE OWN, FURNISHED HOOD INSTALLED BY

  THE CONTRACTOR SHALL HEPLAGE ALL EXISTING FULL FILL BOXES IE DAMAGED.
- 12. CONTRACTOR SHALL REPLACE ALL EXISTING PULL BOXES IF DAMAGED. (SEE SPECIAL PROVISIONS)
- 13. ALL TRAFFIC SIGNAL STANDARDS, VEHICLE AND LUMINAIRE MAST ARMS SHALL BE MANUFACTURED BY VALMONT INDUSTRIES OR EQUIVALENT. ALL VEHICLE AND LUMINAIRE MAST ARMS ARE STRAIGHT.

- SEE CIVIL PLANS FOR PEDESTRIAN RAMPS.

  TRAFFIC SIGNAL CONDUITS SHALL BE INSTALLED BY THE METHOD OF JACKING, BORING, DIRECTIONAL BORING OR TRENCHING WITH MINIMUM 36' OF COVER IN THE PAVEMENT AND MINIMUM 24' OF COVER IN THE SIDEWALK UNLESS OTHERWISE NOTED (SEE STANDARD PROVISIONS).

  CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE OPERATION OF THE TRAFFIC SIGNAL DURING CONSTRUCTION BY PROVIDING TEMPORARY SIGNAL STANDARDS AND TEMPORARY OVERHEAD WIRING AS NECESSARY WITH NO ADDITIONAL COMPENSATION. SEE STAGE TRAFFIC SIGNAL PLANS.
- SEE STAGE TRAFFIC SIGNAL PLANS.

  ALL CAST-IN DRILLED HOLE FOUNDATIONS SHALL BE PRE-DRILLED AND BACKFILLED WITH ONE SACK SLUBRY, CURED FOR A MINIMUM OF ONE DAY CAST-IN-DRILLED HOLE FOUNDATIONS LOCATED FOR A MINIMUM OF ONE DAY LINE CONTRACTOR SHALL NOTIFY FILED ENGINEER IN ADVANCE TO SCHEDULE THE CONTRACTOR SHALL NOTIFY FILED ENGINEER IN ADVANCE TO SCHEDULE THE CONTRACTOR SHALL NOTIFY FILED ENGINEER IN ADVANCE TO SCHEDULE THE CONTRACTOR HALL HAMD IN FOUNDER ON THE NEXT ALL SHAD INSTALL SOND TUBE FOR THE ENTIRE DEPTH OF HOLE PRIOR TO INSTALL AND INSTALL SOND TUBE CONCRETE. ALL VOID AREAS AROUND THE FOUNDATION SHALL BE BACKFILLED WITH AND THE PRIOR TO INSTALL BE BACKFILLED WITH AND THE POWER THE PRIOR TO THE STATE OF THE PRIOR TO THE PRIOR TO THE STATE OF THE PRIOR TO THE PRIOR
- 19. ALL NEW SIGNS SHALL HAVE THE RETROREFLECTIVE SHEETING AND PROTECTIVE FILM. PROTECT IN PLACE ALL EXISTING ABOVE GROUND SIGNAL AND COMMUNICATION CABINETS AND SERVICE ENCISUMER AND INTERCONNECT COMMUNICATION IS RESPONSIBLE FOR REPLACING ALL DAMAGED ITEMS WITH NO ADDITIONAL COMPENSATION.
- 21. CONTRACTOR SHALL PAINT ALL SIGNAL EQUIPMENT. COMMUNICATION CABINET, SERVICE CABINET AND CONTROLLER TO MATCH POLE COLORS RAL# 7011 EISENGRAU IRON GREY.
- 22. CONTRACTOR SHALL ADJUST ALL PULL BOXES TO GRADE.

### POLE AND EQUIPMENT SCHEDULE

	ST	TANDARD			VEH	SIG MTG	COUNTROWN	A	PS	HPS	IISNS	LOCA	TION	
No.	TYPE	HEIGHT	SMA	LMA	MAST	POLE	PED SIGNAL	ø	ARROW	ĽÚM	112N2	Α	В	REMARKS
՛⊗	26-4-70	30′	35′	6′	2-MAS	SV-1-T SV-1-T	SP-1-T	6	HON-ADA PEA	200W	Grand Ave	7'	2,5	A
®	15TS	30′	-	12′	-	SV-2-TA	SP~1-T	8	-	250W	-	8'	2.5'	A
©	26-4-70	30'	45′	12′	2-MAS	SV-1~T	SP-1-T	8	-	250W	Galden Springs Dr	14'	2.5'	A
0	15TS	30'	-	12′	-	SV-2-TA	SP-1-T	2	-	200W	+	11'	2.5'	A
Œ	TEMP. WOOD POLE (N	30'	-	-	2-MAS(N)	SV-1-T(N)	-	-	-	(L)165W(T)	-	5.5	2'	A MAS MTG DN WIRE SPAN
Ð	15TS (T)	30'	-	4'	-	SV-1-T(T)	-	4		(L)165W(T)	-	-	-	A
<b>©</b>	×××××	30'	55′	15′	3-MAS	5V-1-T	SP-1-T	4	-	(L)165W	Golden Springs Dr	В'	6'	AB
<b>B</b>	** (N)	30'	-	15′	-	SV-2-TA(N)	SP-1-T(N)	6	——(N)	(L)165W(R)		14'	6'	A

- 1. ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED : (N) = NEW, (R) = RELOCATE, (L) = NEW LED LUMINAIRE, (T) = TEMPORARY
- 2. ALL POLES ARE DECORATIVE TYPE AND SHALL MEET CALTRANS STANDARD PLANS 2015 EXCEPT AS NOTED.
- ALL POLES AND EQUIPMENT (VEHICLE SIGNAL HEADS AND BACKPLATE PEDESTRIAN HOUSING AND MOUNTING, PUSH BUTTON HOUSINGS) SHALL BE COLORED RAL# 7D11 EISENCRAU IRON GREY.
- A EXACT POLE LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- B EXISTING IISNS SHALL BE REUSED WITH NEW PAINT. SAME AS DECORATIVE POLE.

- CATALOG # FOR THE DECORATIVE POLE. SEE STANDARD TECHNICAL PROVISIONS.

  \* BCNH02640-FL4S-26-4-100-40SMA-15LMA-K028-250HPS-FPGV

  \*\* BCNH01735-FL4S-15TS-15LMA-K828-250HPS-FPGV

  \*\*\* BCNH02640-FL4S-61-5-10D-65SMA-15LMA-K028-250HPS-FPGV

  \*\*\*\* BCNH02640-FL4S-24-4-10D-35SMA-15LMA-K028-250HPS-FPGV

  \*\*\*\*\* BCNH02640-FL4S-29-5-100-53SMA-15LMA-K028-250HPS-FPGV

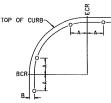
### CONDUIT AND CONDUCTOR SCHEDULE

CABL	E 5	CHEDULE				co	NDUI	T RI	JN N	UMBE	R A	ND S	IZE			
CABLE TYPE	STO	PHASE	Δ	A	ß	҈Ѧ	ß	Æ	Δ	҈Ѧ	<u> </u>	℩	$\Psi$	℩	Δ	<u> </u>
VEH-PED/ 12CSC	<b>(A)</b>	3,4,8,89	7-	(2)_	27	2/_	7	[2]	(2)	[2]	<del>-</del> -	-	-	-	<u>-</u> -	<del>-</del> -
12636		5,6	Un:		1	$\mathcal{V}_{0}$	-/-	1/1	11/1		-	-/-	7	7	7	<u>-</u>
/		2,5	-	-	<u> </u>	-	-/-	V	7	叼	1	1	1	1	1	<u>-</u>
/		7,8,8P	<u>-</u>	<u>-</u>	5/	-	/	17	17	17	17	10/2	1	1		1
/	ⓐ	4,7,0LA	17-	<u>-</u>	5/-	-	7	<u> </u>	呗_	17/	17/	177 <u>-</u>	7	7-	7	-/-
/	<u> </u>	1	-	<u>-</u>	<u>-</u>	-	<del>-</del>	177 <u>-</u>	<u> </u>	17/-	11/2	-	-	7-	7-	57-
/ PPB		1,6	7	<u>-</u>	<u> </u>	-	7	<del>-</del>	<u> </u>	<u> </u>	-/-	-/-	-/-	-	<u>-</u> -	<u>-</u>
3csc	⊕	3,4,0LA	5	<u>-</u>	<u>-</u>	5/.	1/-	-/-	<u>河</u>	W.	=/-	7/.	-	-	7-	<u>-</u>
		TOTAL	17	3/1	3/1	3/1	1/-	7/2	9/2	9/2	4/1	3/1	2/1	3/1	2/1	1/
AWG	X	CIRCUIT			·					K				k	<b>-</b> t	
5CSC		APS	-	-	-	-	-	-	-	-	-	-	-		<u> </u>	-
#12		I I SNS	-	(2)	(2)	(2)	-	(2)	(2)	-	(2)	(2)	[2]	(2)	(2)	-
#10		LIGHTING	(2)	(2)	(2)	(2)	2	(2)	(2)		(2)	(2)	(2)	(2)	(2)	(2)
#8		SERVICE	-	-	-	l -	-	-	-	-	-	-	-	-	-	-
#6		SERVICE	~-	-	-	-	-	-	-	-	-	-	-	-	-	-
		LOOP DLC	[													•
PHASE 2			-	-	-	-	-	(2)	(2)	(2)	(2)	-	<del>-</del>	-	-	-
PHASE 4			-	-	-	(2)	-	(2)	(2)	(2)	-	~	-	-	-	-
PHASE 6			(2)	(2)	(2)	(2)	-	(2)	(2)	(2)	-	~	-	-	-	-
PHASE 8			-	-	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
		TOTAL	2	2	2	4	-	8	8	В	4	2	2	2	2	2
VIDEO C	AME	RA CABLE	-	(1)	(1)	(1)	-	(3)	(4)	(4)	(2)	(2)	(1)	(1)	(1)	-
VIDEO C	AME	RA POWER	-	(1)	(1)	(1)	-	(3)	(4)	(4)	(2)	(2)	(1)	(1)	(1)	-
24 SMF0			-	-	-	-	-	-	-	-	1	1	1	1	1	-
48 SMF0			-	-	-	1	-	-	-	-	-	-	-	-	-	-
CCTV CA	BLE		-	(1)	(1)	(1)	-	(1)	(1)	(1)	-	-	-	-	-	-
	CO	NDUIT SIZE	<b>{3"}</b>	[3"}	(OH)	(OH)	4"	(2-3")	(2-4"	(2-4"	(OH)	(OH)	(OH)	(OH)	(3")	(3")
	CO	NDUIT FILL (%)	8	19	-	-	3	12	16	25	-	-	-	-	15	6

ALL CONDUIT AND CONDUCTORS ARE NEW, UNLESS INDICATED OTHERWISE. (#) = EXISTING

BENCHMARK: LIN Consulting, Inc. ELEV. 0000.000

REVIEWED APPROVED
CITY ENGINEER R.C.E. DATE



POLE LOCATION DETAIL



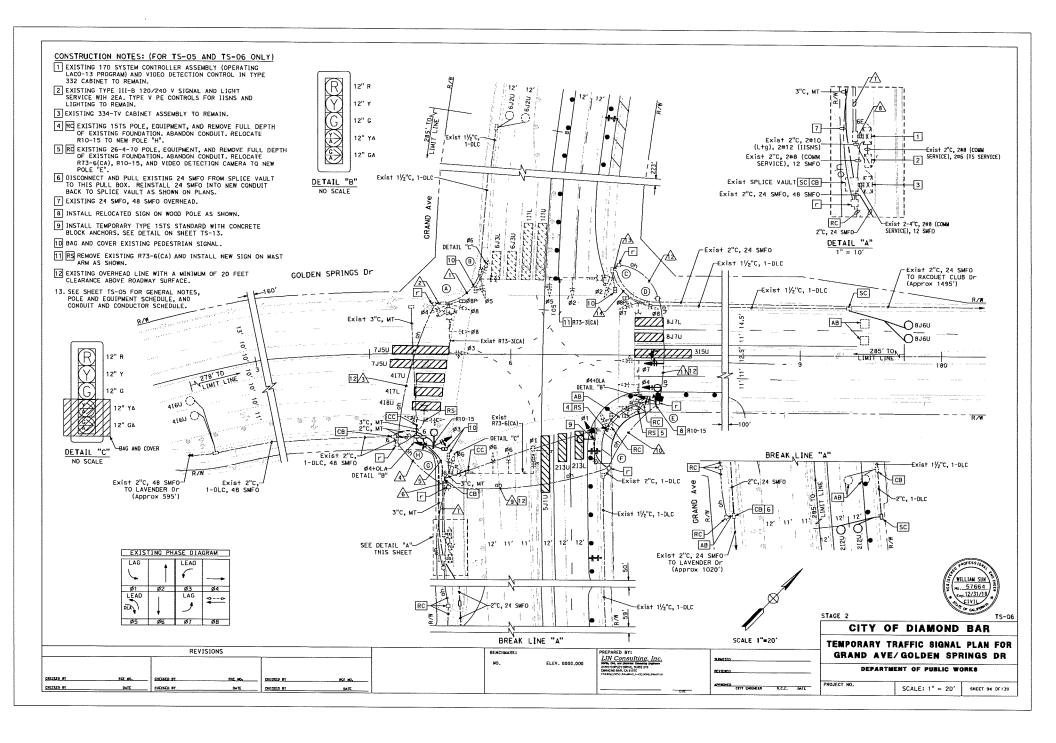
CITY OF DIAMOND BAR

TEMPORARY TRAFFIC SIGNAL PLAN FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

PROJECT NO. SCALE: NO SCALE

	REVISI			
CHECKED BY RISE NO.	CHECARD BY	ROE MO.	CHECASO BY	GE NO.
CRECKED BY DATE	CHECKED BY	DATE	CHECKED BY	MTE



- ALL MATERIAL AND WORK SHALL CONFORM TO THE 2015 STANDARD PLANS AND SPECIFICATIONS OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE HAND OIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT (BDD) 227-2600, 4B HOURS IN ADVANCE OF WORK.
- 3. OBTAIN APPROVAL FROM ENGINEER IN THE FIELD FOR EXACT EQUIPMENT LOCATION PRIOR TO FINAL PLACEMENT.
- 4. ALL PEDESTRIAN AND VEHICULAR DISPLAYS SHALL BE LED TYPE PER THE SPECIAL PROVISIONS.
- SPECIAL PROVISIONS.

  5. VIDEO DETECTION ZONES SHOWN ON PLAN DENOTE DETECTION ZONES WITH CHANNEL DESIGNATIONS FOR ASSIGNING DETECTION OUTPUTS TO THE CONTROLLER.

  6. VIDEO DETECTION ZONES SHALL BE AS SHOWN ON PLAN. CENTER VIDEO DETECTION ZONES IN THE TRAVELEO PORTION OF THE LANE UNLESS SHOWN OTHERWISE LIMIT LINE DETECTION ZONES HALL BE TACED O'BEHIND THE CROSSWALK OR LIMIT LINE UNLESS OTHERWISE NOBLATED.
- 7. NEW CONDUIT SHALL BE TYPE I. SEE PLAN FOR SIZES.
- B. ALL NEW PULL BOXES SHALL BE No. 5 UNLESS SHOWN OTHERWISE.
- B. ALL NEW POLDE SMALL BE NO. 5 UNLESS SHOWN OTHERWISE.

  9. ALL NEW PEDESTRIAN SIGNAL SYSTEMS SHALL BE ACCESSIBLE PEDESTRIAN
  SYSTEMS (APS) WITH INTERNATIONAL SYMBOL OF MAN AND HAND WITH
  PEDESTRIAN COUNTDOWN FEATURE MANUFACTURED BY "OLALIGHT PART NO.
  430-6479-001X OR "GE GIT" PART NO. PST-CFT-Z6A.

  10. ALL VEHICLE SIGNALS SHALL HAVE 12" LENSES, TUNNEL VISORS, AND
  BACKPLATES, ALL SIGNAL INDICATIONS SHALL BE PROVIDED WITH LED UNITS.
  ALL MAST ARM MOUNTED VEHICLE HEADS OF TIVE-SECTION VEHICLE HEADS
  MOUNTED ON TYPE 1-A POLES SHALL BY BACKPLATES. ALL REQUIRED
  MOUNTED ON TYPE 1-A POLES SHALL BE PROVIDED BY THE CONTRACTOR
  11. (XXXX) INDICATES LODGE ASSECUENT IN THE CONTRICLER CABNET, EACH
  ASSECUENT AND SOUTHWAY SHALL BE PROVIDED BY THE CONTRICLER CABNET, EACH
  ASSECUENT AND SOUTHWAY SHALL BE NEW FURNISHED AND INSTALLED BY
  THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS. AND INSTALLED BY
  THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS.
- 12. CONTRACTOR SHALL REPLACE ALL EXISTING PULL BOXES IF DAMAGED. (SEE SPECIAL PROVISIONS)
- 13. ALL TRAFFIC SIGNAL STANDARDS, VEHICLE AND LUMINAIRE MAST ARMS SHALL
  BE MANUFACTURED BY VALMONT INDUSTRIES OR EQUIVALENT. ALL VEHICLE
  AND LUMINAIRE MAST ARMS ARE STRAIGHT.
- AND LUMINAIRE MAST ARMS ARE STRAIGHT.

  ALL PAINT SHALL BE FURNISHED BY THE CONTRACTOR. PAINT SHALL BE GLOSS FINISH, THE CONTRACTOR SHALL FURNISH A COLOR CHIP TO THE ENGINEER FOR APPROVAL. NEW TRAFFIC SIGNAL EQUIPMENT TO BE PAINTED SHALL INCLUDE VEHICLE HEAD HOUSINGS, PEDESTRIAN SIGNAL HEAD HOUSINGS, BACK FACES OF BACKPLATES, INTERNALLY ILLUMINATED STREET NAME SIGN FRAMES, LUMINAIRES, PEDESTRIAN PUSH BUTTON UNITS, VIDEO DETECTION CAMERA HOUSINGS, COTV. CAMERA HOUSINGS, COTTON CAMERA HOUSINGS, CAMERA HOUSINGS, CAMERA HOUSINGS, CAMERA HOUSINGS, CAMERA HOUSINGS, CAMERA HOUSINGS,
- 15. SEE CIVIL PLANS FOR PEDESTRIAN RAMPS.
- SEE CIVIL PLANS FOR PEDESIRIAN RAMPS.

  RAFFIC SIGNAL CONDUITS SHALL BE INSTALLED BY THE METHOD OF JACKING, BORNOLD BY THE STANDARD OF FROM THE STORMALK UNLESS OF THE STANDARD PROVISIONS).

  CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE OPERATION OF THE TRAFFIC SIGNAL DURING CONSTRUCTION BY THE PROVIDING THE PROPERTY SIGNAL STANDARDS AND TEMPORARY SIGNARDS AND TEMPORATION SIGNAL STANDARDS AND TEMPORATION SIGNARDS AND TEMPORATION STANDARDS AND TEMPORATION SIGNARDS AND TEMPORATION SIGNARY SANDAR
- SEE STAGE TRAFFIC SIGNAL PLANS.

  B. ALL CAST-IN DRILLED HOLE FOUNDATIONS SHALL BE PRE-DRILLED AND BACKFILLED WITH ONE SACK SLURRY, CURED FOR A MINIMUM OF ONE DAY CAST-IN-DRILLED HOLE FOUNDATIONS LOCATED WITHIN 2' OF AN EXISTING GAS LINE CONTRACTOR SHALL NOTIFY FILED ENGINEER IN ADVANCE TO SCHEDULE ANSTALL OF THE POWED AT AN OFF AND THE OWNER OF THE OWNER OWNER OF THE OWNER OWN
- 19. ALL NEW SIGNS SHALL HAVE THE RETROREFLECTIVE SHEETING AND PROTECTIVE FILM. PROTECT IN PLACE ALL EXISTING ABOVE CROUND SIGNAL AND COMMUNICATION CABINETS AND SERVICE ENCLOSUME AND INTERCONNECT COMPULITS. CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL DAMAGED ITEMS WITH NO ADDITIONAL COMPENSATION.
- 21. CONTRACTOR SHALL PAINT ALL SIGNAL EQUIPMENT. COMMUNICATION CABINET, SERVICE CABINET AND CONTROLLER TO MATCH POLE COLORS RAL# 7011 EISENGRAU IRON GREY.
- 22. CONTRACTOR SHALL ADJUST ALL PULL BOXES TO GRADE.

### POLE AND EQUIPMENT SCHEDULE

	ST	ANDARD			VEH	SIG MTG	COUNTBOWN	А	PS	HPS	USNS	LOCATION		BELLIBES
No.	TYPE	HEIGHT	SMA	LMA	MAST ARM	POLE	PED SIGNAL	ø	ARROW	LUM	133142	Α	В	REMARKS
➂	TEMP. WOOD POLE (N)	30′	-	-	2-MAS	SV-1-T SV-1-T	-	-	-	(L)165W(T)	_	13'	2'	A MAS MTG ON WIRE SPAN
₿	TEMP. MOOD POLE (N)	30′	-	-	-	SV-2-TA	-	-	-	(L)165W(T)		2'	3.5'	A
©	26-4-70	30′	45′	12′	2-MAS	SV-1-T	SP-1-T	В	-4-	250W	Golden Springs Dr	14'	2.5'	Α
0	1575	30′	-	12'	-	SV-2-TA	SP-1-T	2	->-	200W	-	11'	2.5	Α
Œ	**** (N)	30'	35′	15	2-MAS(N)	SV-1-T(N)	SP-1-T(N)	2	-4-	(L)165W(N)	Grand Ave	7'	5.5'	AB
Ð	** (N)	30'	-	15'	-	SV-1-T(N)	SP-1-T(N)	4		(L)165W(N)	-	5.5	2.5	Α
<b>©</b>	×××××	30'	55′	15′	3-MAS	SV-1-T	SP-1-T	4	-	(L)165W	Golden Springs Dr (R)	8′	6'	AΒ
⊕	××	30'	-	15′	-	SV-2-TA	SP-1-T	6	-	(L)165W	-	14'	6'	A

- 1. ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED : (N) = NEW, (R) = RELOCATE, (L) = NEW LED LUMINAIRE, (T) = TEMPORARY
- 2. ALL POLES ARE DECORATIVE TYPE AND SHALL MEET CALTRANS STANDARD PLANS 2015 EXCEPT AS NOTED.
- ALL POLES AND EQUIPMENT (VEHICLE SIGNAL HEADS AND BACKPLATE, PEDESTRIAN HOUSING AND MOUNTING, PUSH BUTTON HOUSINGS) SHALL BE COLORED RAL# 7011 EISENGRAU IRON GREY.
- A EXACT POLE LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- B EXISTING JISNS SHALL BE REUSED WITH NEW PAINT, SAME AS DECORATIVE POLE.

- CATALOG # FOR THE DECORATIVE POLE. SEE STANDARD TECHNICAL PROVISIONS.

  \* BCNH02640-FL4S-26-4-100-40SMA-15LMA-K828-250HPS-FPGV

  \*\* BCNH01735-FL4S-15TS-15LMA-K828-250HPS-FPGV

  \*\*\* BCNH02640-FL4S-61-5-100-65SMA-15LMA-K828-250HPS-FPGV

  \*\*\*\* BCNH02640-FL4S-24-4-100-35SMA-15LMA-K828-250HPS-FPGV

  \*\*\*\*\* BCNH02640-FL4S-29-5-100-55SMA-15LMA-K828-250HPS-FPGV

### CONDUIT AND CONDUCTOR SCHEDULE

CABL	E :	SCHEDULE	CONDUIT RUN NUMBER AND SIZE															
TIFE	S T D	PHASE	Δ	Æ	⅓	A	◬	Æ	Δ	҈Ѧ	Â	℩	℩	Λž	Δ	14	<u> 1</u> 3	Æ
VEH-PED/	Ø	3,4,8	-/-	2/_	2)_	<u> </u>	2/_	[2]	2	-/-	-/-	-/-	7	-	<u>-</u>	-/-	<u>-/</u>	=/_
12CSC /	(1)	5,6	7	1/-	<b>沙</b>	7	1	1		-/-	-/-	-	7	7	-	-	7	7.
/ /		2,5,2P	-/-	-/-	7-	7	<u>呗</u>	<b>W</b>	1	11/2	-/-	-/-	7		1	1)/_	<b>W</b>	<del>-</del>
/		7,8	<u>-</u> -	-/-	-/-	7	<b>77</b> 1	<b>贝</b> 1	17	贝	-	=/-	-	1)/1	1	1	17	1)/1
/	(E)	4,7,4P,0LA 2	7-	-	-/-	-/-	1		11/1	1	1/1	1/1	1/1		-	-/-	-	1
/	V.	1,2P	<u>-</u>	-/-	-	-/-		1	1	1/1	1	1/1	7	-	-/-	-	-/-	-/-
/ ,,,,,,	<u>©</u>	1,6	-	-/-	-/-	-/-	-/-	IJ-1	1	57	-	7	7	-	-/-	-/-	-/	-
PPB 3CSC	$\oplus$	3,4,4P,0LA	<u>-</u>	<u>-</u> -	57.	1	-/-	<u> </u>	1	<u> </u>	<u>-</u> -	<u>-</u> -	-	<u>-</u>	<u>-</u> -	-	-	-/-
		TOTAL	1/-	3/~	3/-	1	7/3	9/4	9/4	4/3	2/2	$\frac{2}{2}$	1/1	2/1	2/1	2/1	2/1	1/1
AWG	X	CIRCUIT																
5CSC		APS	-		-	2		-	-	-	-	-	2	-	-	-	-	-
#12		I I SNS	-	-	-	-	(2)	(2)	-	(2)	2	2	2	(2)	(2)	(2)	(2)	-
#10		LIGHTING	2	2	1	(2)	(2)	(2)	-	(2)	2	2	2	(2)	(2)	(2)	(2)	(2)
#8		SERVICE	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-
#6		SERVICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		LOOP DLC																
PHASE 2			-	-	-	-	(2)	(2)	(2)	(2)	2	-	-	-	-	-	-	~
PHASE 4			-	-	(2)	-	(2)	(2)	(2)	-	-	-	-	-	-	-	-	-
PHASE 6			2	2	(2)	-	(2)	(2)	(2)	-	-	-	-	-	-	-	-	-
PHASE 8			-	-	-	-	(2)	(2)	(2)	(2)	-	-	-	(2)	(2)	(2)	(2)	(2)
		TOTAL	2	2	4	-	8	В	8	4	2	-		2	2	2	2	2
VIDEO CA	ΔME	RA CABLE	-	1	(1)	-	(3)	(4)	(4)	(2)	1	1	1	(1)	(1)	(1)	(1)	-
VIDEO CA	AME	RA POWER	-	1	(1)	-	(3)	(4)	(4)	(2)	1	1	1	(1)	(1)	(1)	(1)	-
24 SMF0			-			-	-	_	-	1	-	-	-	1	1	1	1	-
48 SMF0			-	-	. 1	-	-	-	-	-	-	-		-	-	-	-	-
CCTV CA	BLE		-	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-
	СО	NDUIT SIZE	ОН	ОН	(OH)	(4")	(2-3*)	(2-4°)	(2-4*)	ОН	3"	3"	2"	(OH)	(OH)	(OH)	(3")	(3")
	СО	NDUIT FILL (%)	-	-	-	5	12	17	16	-	15	13	26	-	-	-	17	8

ALL CONDUIT AND CONDUCTORS ARE NEW, UNLESS INDICATED OTHERWISE. (#) = EXISTING

BENCHMARK:

NO.

TOP OF CURR-

POLE LOCATION DETAIL



TS-07 CITY OF DIAMOND BAR

57664 ... 12/31/1

TEMPORARY TRAFFIC SIGNAL PLAN FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

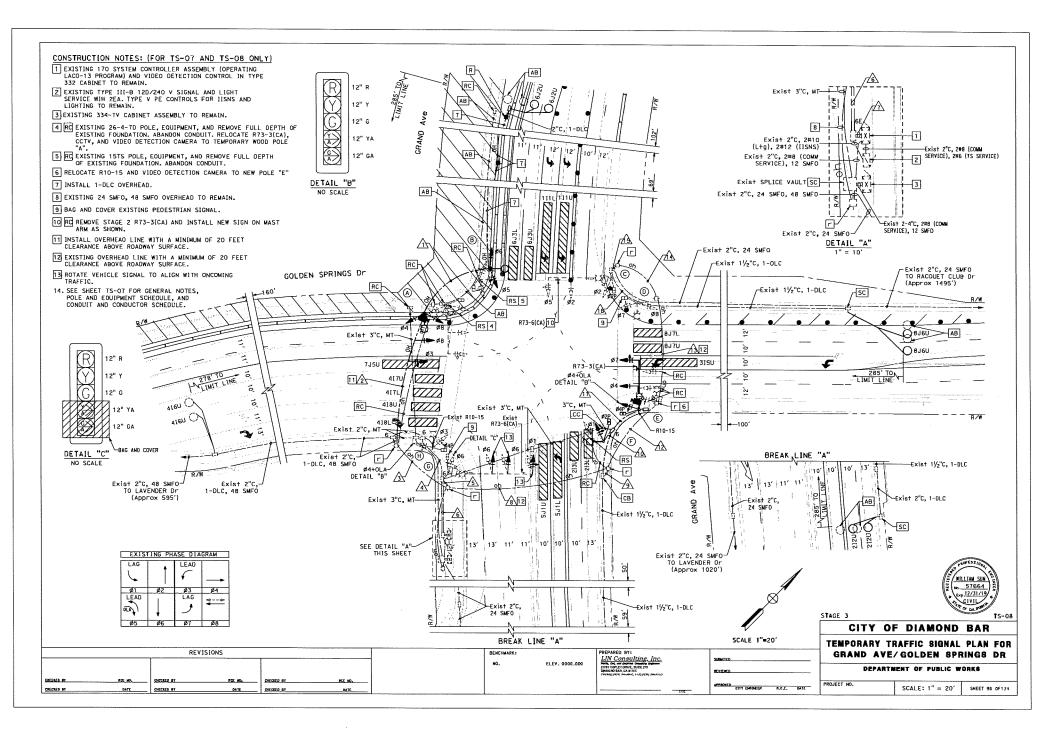
ROJECT NO. SCALE: NO SCALE

SHEET 95 DE139

REVISIONS								
					1			
CHECKED BY	RCE NO.	CHECKED BY	RCE NO.	CHECKED BY	MCE NO.			
CHECKED BY	DATE	CHECKED BY	DATE	CHECKED BY	DATE			

PREPARED BY: LIN Consulting, Inc.

MAN, OH, OF DESIGN CONTROL OF THE PROPERTY OFFICE OF THE PROPERTY OF THE ELEV. 0000.000 MAN MID CTTT ENGINEER R.C.F. DATE



- 1. ALL MATERIAL AND WORK SHALL CONFORM TO THE 2015 STANDARD PLANS AND SPECIFICATIONS OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL OCTEMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF DESTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT (800) 227-2600, 48 HOURS IN ADVANCE OF WORK.
- OBTAIN APPROVAL FROM ENGINEER IN THE FIELD FOR EXACT EQUIPMENT LOCATION PRIOR TO FINAL PLACEMENT.
- 4. ALL PEDESTRIAN AND VEHICULAR OISPLAYS SHALL BE LED TYPE PER THE SPECIAL PROVISIONS.
- SPECIAL PROVISIONS.

  VIDEO DETECTION ZONES SHOWN OF PLAN DENOTE DETECTION ZONES WITH CHANNEL OESIGNATIONS FOR ASSIGNING DETECTOR OUTPUTS TO THE CONTROLLER.

  VIDEO DETECTION ZONES SHALL BE AS SHOWN ON PLAN, CENTER VIDEO DETECTION ZONES IN THE TRAVELEO PROTION OF THE LANE UNLESS SHOWN OTHERNISE. LIMIT LINE OETECTION ZONES SHALL BE PLACED O'BEHIND THE CROSSWALK OR LIMIT LINE UNLESS OTHERWISE INDICATED.

  NEW CONQUIT SHALL BE TYPE 1. SEE PLAN FOR SIZES.
- 8. ALL NEW PULL BOXES SHALL BE No. 5 UNLESS SHOWN OTHERWISE.
- ALL NEW PULL BOXES SHALL BE NO. 5 UNLESS SHOWN OTHERWISE.
  ALL NEW PEDESTRIAN SIGNAL SYSTEMS SHALL BE ACCESSIBLE PEDESTRIAN
  SYSTEMS (APS) WITH INTERNATIONAL SYMBOL OF MAN, AND HAND WITH
  PEDESTRIAN COUNTDOWN FEATURE MANUFACTURED BY "DIALIGHT" PART NO.
  430-6479-001X OR "GE GTI" PART NO. PS7-CFF1-ZeA.
  ALL VEHICLE SIGNAL SHALL HAVE 12" LENESS, TUNNEL VISORS, AND
  BACKPLATES. ALL SIGNAL INDICATIONS SHALL BE PROVIDED WITH LED UNITS.
  ALL MEST ARM MOUNTED VEHICLE HEADS OR THY-SECTION VEHICLE HEADS
  MOUNTEDON OR NEW AF ADDS SHALL BE PROVIDED TO THE CONTRACTOR.
- (XXXX) INDICATES LOOP ASSIGNMENT IN THE CONTROLLER CABINET. EACH ASSIGNMENT SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROLLER. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS.
- 12. CONTRACTOR SHALL REPLACE ALL EXISTING PULL BOXES IF DAMAGEO. (SEE SPECIAL PROVISIONS)
- 13. ALL TRAFFIC SIGNAL STANDARDS, VEHICLE AND LUMINAIRE MAST ARMS SHALL
  BE MANUFACTURED BY VALMONT INDUSTRIES OR EQUIVALENT. ALL VEHICLE
  AND LUMINAIRE MAST ARMS ARE STRAIGHT.

  14. ALL PAINT SHALL BE FURNISHED BY THE CONTRACTOR, PAINT SHALL BE GLOSS
  FINISH, THE CONTRACTOR SHALL FURNISH A COLOR CHIP TO THE ROISHEER FOR
  APPROVAL HEW TRAFFIC SIGNAL FURNISHED A COLOR CHIP TO THE ROISHEER FOR
  BECKEL FLEEN NOTHINGLY FURNISHED FOR THE FLAME SHALL INCLUDE OF
  BECKEL FLEEN NOTHINGLY FURNISHED FOR THE FLAME SHALL INCLUDE OF
  BECKEL FLEEN NOTHINGLY FURNISH AND STREET CAMPAINED SHALL INCLUDE OF
  BECKEL FLEEN NOTHINGLY FURNISH AND STREET CAMPAINED SHALL REPORT OF
  BECKEL FLEEN NOTHINGLY FURNISHED FOR THE FLAME FURNISH SHALL BE
  CABINETS, PRIOR TO PAINT, THE STONAL POLICE AND APPARATUS SHALL BE
  FOR THE STAND SHALL BE REPORTED FOR THE FOR
- 15. SEE CIVIL PLANS FOR PEDESTRIAN RAMPS.

- 15. SEE CIVIL PLANS FOR PEDESTRIAN RAMPS.

  16. TRAFFIC SIGNAL CONDUITS SHALL BE INSTALLED BY THE METHOD OF JACKING, BOOTING VIDERTONAL BORING OF TRENCHING WITH MINIMUM 36" OF COVER IN OTHERWISE NOTED ISSES STANDARD PROVISIONS).

  17. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE OPERATION OF THE TRAFFIC SIGNAL DURING CONSTRUCTION BY PROVIDING EMPORARY SIGNAL STANDARDS AND TEMPORARY OFFICE AND AND ASSESSED OF THE TRAFFIC SIGNAL PLANS.

  18. ALL CASE TRAFFIC SIGNAL PLANS.

  19. ALL CASE TRAFFIC SIGNAL PLANS.

  19. ALL CASE THE OWN PROVIDED TO THE TRAFFIC SIGNAL STANDARDS AND THE OWN PROVIDED TO THE TRAFFIC SIGNAL PLANS.

  19. ALL CASE THE SIGNAL PLANS.

  10. ALL CASE TRAFFIC SIGNAL PLANS.

  10. ALL CASE THE SIGNAL PLANS.

  10. ALL CASE THE SIGNAL PLANS.

  10. ALL CASTRUCTION MEETING OF TO HAVE AN INSPECTOR ONSITE DURING AS A PRE-CONSTRUCTION MEETING OF TO HAVE AN INSPECTOR ONSITE DURING INSTALLATION OF FOUNDATION. CONTRACTOR SHALL HAVE DURING THE SIGNAL SHALL WORK AND AROUND THE GAS LINE AND INSTALL SOND TUBE CONCRETE ALL VOID AREAS AROUND THE GAS LINE AND INSTALL SOND TUBE CONCRETE ALL VOID AREAS AROUND THE FOUNDATION SHALL HAVE DEPORTED TO SANCE HAVE AND ANOTALL BE BACKFILLED WITH SAND.
- 19. ALL NEW SIGNS SHALL HAVE THE RETROREFLECTIVE SHEETING AND PROTECTIVE FILM. PROTECT IN PLACE ALL EXISTING ABOVE GROUND SIGNAL AND COMMUNICATION CABINETS AND SERVICE ENCLOSURE AND INTERCONNECT CONDUITS, CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL DAMAGED ITEMS WITH NO ADDITIONAL COMPENSATION.
- 21. CONTRACTOR SHALL PAINT ALL SIGNAL EQUIPMENT. COMMUNICATION CABINET, SERVICE CABINET AND CONTROLLER TO MATCH POLE COLORS RAL# 7011 EISENGRAU IRON GREY.
- 22. CONTRACTOR SHALL ADJUST ALL PULL BOXES TO GRADE.

# POLE AND EQUIPMENT SCHEDULE

	ST	ANDARD			VEH	SIG MTG	COUNTDOWN	А	PS	HPS	115NS	LOCATION		
No.	TYPE	HE1GHT	SMA	LMA	MAST ARM	POLE	PÉD SIGNAL	ø	ARROW	LUM	112M2	Α	В	REMARKS
՛≀	* (N)	30'	40′	15′	2-MAS(N)	SV-1-T(N) SV-1-T(N)	SP-1-T(N)	6	-	(L)165W(N)	Grand Ave	7'	2.5'	AB
₿	** (N)	30′	-	151	-	SV-2-TA(N)	SP-1-T(N)	В	-	(L)165N(N)	-	8.7	5.0'	A
©	TEMP. WOOD POLE (N)	30′	-	-	2-MAS	SV-1-T	-	-	-	(L)165W(T)	-	2'	7'	A MAS MTG DN WIRE SPAN
0	TEMP. WOOD POLE (N)	301	-	-	-	SV-2-TA	-	-	-	(L)165W(T)	-	2'	3′	Α
®	****	30′	35′	15′	Z-MAS	SV-1-T	SP-1-T	2	-	(L)165W	Grand Ave	7'	5.5'	AB
®	**	30'	-	15'	-	SV-1-T	SP-1-T	4		(L)165W	-	5.5	2.5	A
<b>©</b>	××××	30′	55′	15′	3-MAS	SV-1-T	SP-1-T	4	-	(L)165W	Golden Springs Dr		6′	AB
Θ	**	30′	-	15′	-	SV-2-TA	SP-1-T	6	-	(L)165W	-	14'	6'	A

- 1. ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTEO : (N) = NEW, (R) = RELOCATE, (L) = NEW LED LUMINAIRE, (T) = TEMPORARY
- 2. ALL POLES ARE DECORATIVE TYPE AND SHALL MEET CALTRANS STANDARD PLANS 2015 EXCEPT AS NOTED.
- 3. ALL POLES AND EQUIPMENT (VEHICLE SIGNAL HEADS AND BACKPLATE, PEDESTRIAN HOUSING AND MOUNTING, PUSH BUTTON HOUSINGS) SHALL BE COLORED RAL# TO11 EISENGRAU IRON GREY.
- A EXACT POLE LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- B EXISTING IISNS SHALL BE REUSED WITH NEW PAINT. SAME AS DECORATIVE POLE.
- CATALOG # FOR THE DECORATIVE POLE, SEE STANDARD TECHNICAL PROVISIONS.

- \* BCNN102640-FL45-26-4-100-40SMA-15LMA-K828-250HPS-FPGV

  \*\* BCN101735-FL45-15T5-15LMA-K828-250HPS-FPGV

  \*\*\* BCN101735-FL45-15T5-15LMA-K828-250HPS-FPGV

  \*\*\* BCN102640-FL45-24-4-100-35SMA-15LMA-K828-250HPS-FPGV

  \*\*\*\* BCN102640-FL45-24-4-100-35SMA-15LMA-K828-250HPS-FPGV \*\*\*\*\* BCNH0264D-FL45-29-5-10D-55SMA-15LMA-K828-250HPS-FPGV

## CONDUIT AND CONDUCTOR SCHEDULE

CABL	Ε :	SCHEOULE					CO	NDU I	T R	JN N	UMB	R A	ND S	IZE				
CABLE TYPE	S T D	PHASE		Δ	A	<u> </u>	A	҈Ѧ	Æ	A	A	⋬	₼	$\Psi$	Δà	Δ	Δ	ß
VEH-PED/	(A)	3,4,8	/6	-/-	2/1	-/-	2/1	-/-	2/1	2/	=	7	7	F/.	-/	-/	-/-	-/-
12CSC /	(B)	5,6,6P,DLB	~	1/	1		1	7		(i)	1	-	-	-/	-	-	->	
/	Õ	2,5	_	-	7	7	-	1		1	n -	1	1	F	ΠĒ	1	1	1
/	<u></u>	7,8	_	7	-/-	<b>-</b> -	7	1		N)	ny	1	1		ſυŽ	1	=>	F
/	Ē	4,7,4P,0LA	_	-	7	1	1	1	1	ΙυΞ	NZ.	(D)	10	1)	F	-	-	1
/	(F)	1	<u>_</u>	-/-	-/-	7	5	17/1			1	1	1			-		1
/	Ö	1,6,6P,OLB	$\rightarrow$	-/-	-/-	5	5				===		-/-	-/-	-	1		1
/ PPB 3CSC	H	3,4,4P,0LA	-6		7	=	11/	<u>-</u>	177	117	-	-/-	-/		1	1	=	-
		TOTAL		1/	3/1	5/-	4/3	4/1	9	9	4/1	2/1	2/1	1/2	2/	2/	17	1
AWG	X	CIRCUIT		<u> </u>		·					J.	k1.				·		
5CSC	Г	APS		2	-	_	(2)	-	-	T-	- T	-	-	(2)	-	-	Γ-	-
#12	Т	IISNS		-	2	-	2	(2)	(2)	-	(2)	(2)	(2)	(2)	2	2	2	-
#10	Г	LIGHTING		2	2	-	(2)	(2)	(2)	-	(2)	(2)	(2)	(2)	-	-	-	-
#8		SERVICE .		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
#6		SERVICE		-	-	-	-	-	-		-	-	-	-	-	-	-	-
		LOOP DLC								•	•	•		•				
PHASE 2				-	-	-	-	(2)	(2)	(2)	(2)	(2)	-	-	-	-	-	-
PHASE 4				-	-	(2)	-	(2)	(2)	(z)	-	-	-	Ι-	-	-	-	
PHASE 6				2	2	-	2	-	(2)	(2)	-	-	-	-	-	-		-
PHASE 8				-	-	-	-	(2)	(2)	(2)	(2)	-	-	-	2	2	-	-
		TOTAL		2	2	2	2	6	8	8	4	2	-	-	2	2	-	-
VIDEO CA	ΔΜΕ	RA CABLE		-	1	-	1	(2)	(4)	(4)	(2)	(1)	(1)	(1)	1	1	1	-
VIDEO C	AME	RA POWER		-	1	-	1	(2)	(4)	(4)	(2)	(1)	(1)	{1}	1	1	1	-
24 SMF0				-	-	-	-	-	-	-	1	-	-	-	1	1	-	-
48 SMF0				-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
CCTV CA	BLE			-	1	-	1	-	1	1	-	-	-	-	-	-	-	-
	CONOUIT SIZE					(OH)	[4")	(2-3")	[2-4"]	(2-4"	(OH)	(3")	(3")	(2")	(OH)	ОН	ОН	ОН
	CONOUIT FILL (%)				11	-	16	14	17	16	-	14	12	23	-	-	-	-

ALL CONDUIT AND CONDUCTORS ARE NEW, UNLESS INDICATED OTHERWISE.

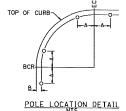
(#) = EXISTING NO.

REVISIONS CHECKED BY CHECKED BY BENCHMARK: ELEV. 0000.000

LIN Consulting, Inc.

July on Subset Green's Department of the Conference of the Con

PERCOED CITY EMEDIEER R.C.E. DATE





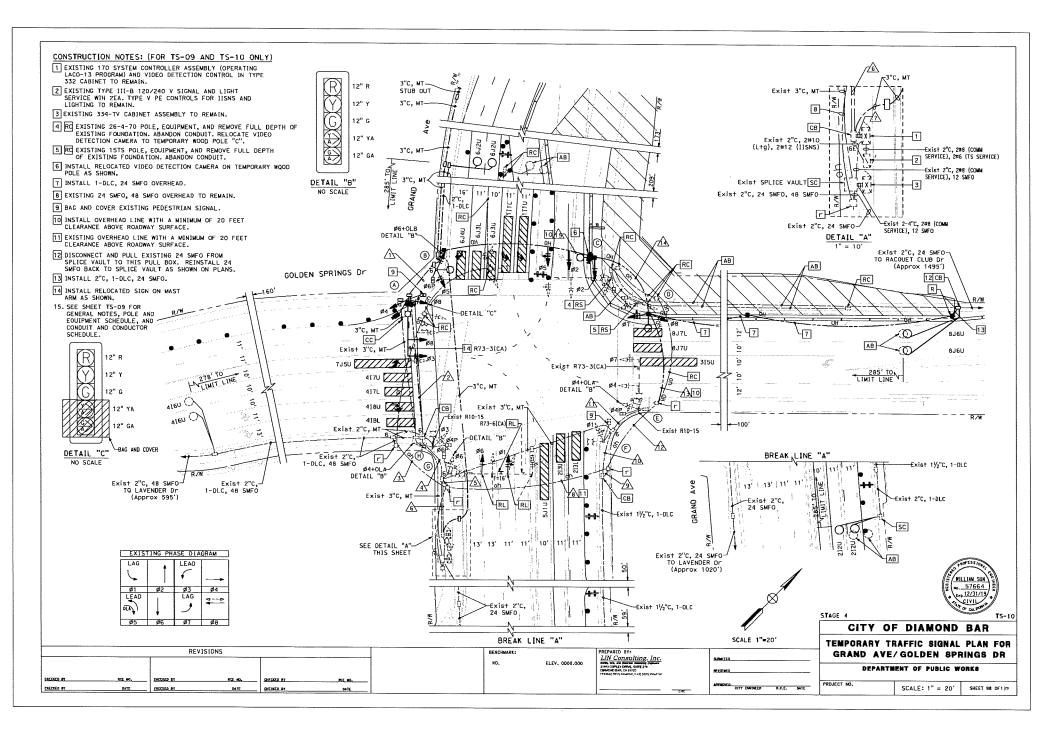
STAGE 4

CITY OF DIAMOND BAR

TEMPORARY TRAFFIC SIGNAL PLAN FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

PROJECT NO SCALE: NO SCALE | SHEET 9T DF 139



- 1. ALL MATERIAL AND WORK SHALL CONFORM TO THE 2015 STANDARD PLANS AND SPECIFICATIONS OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- 2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT (800) 227-26DD, 48 HOURS IN ADVANCE OF WORK.
- 3. OBTAIN APPROVAL FROM ENGINEER IN THE FIELD FOR EXACT EQUIPMENT LOCATION PRIOR TO FINAL PLACEMENT.
- 4. ALL PEDESTRIAN AND VEHICULAR DISPLAYS SHALL BE LED TYPE PER THE SPECIAL PROVISIONS.
- SPECIAL PROVISIONS.

  VIDEO DETECTION ZONES SHOWN ON PLAN DENOTE DETECTION ZONES WITH CHANNEL DESIGNATIONS FOR ASSIGNING DETECTOR OUTPUTS TO THE CONTROLLER.
- VIDEO DETECTION ZONES SHALL BE AS SHOWN ON PLAN CENTER INCOMPLETE ON ZONES IN THE TRAVELED PORTION OF THE LANG UNLESS SHOWN OTHERWISE. LINE DETECTION ZONES SHALL BE PLACED D'BEHIND THE CROSSWALK OR LIMIT LINE UNLESS OTHERWISE INDICATED.
- 7. NEW CONDUIT SHALL BE TYPE I. SEE PLAN FOR SIZES.
- B. ALL NEW PULL BOXES SHALL BE No. 5 UNLESS SHOWN OTHERWISE.
- B. ALL NEW PODES THAIL BE NO. 5 UNLESS SHOWN DIHEMMISE.

  9. ALL NEW PODESTRIAN SIGNAL SYSTEMS SHALL BE ACCESSIBLE PEDESTRIAN SYSTEMS (APS) WITH INTERNATIONAL SYMBOL OF MAN, AND HAND WITH PEDESTRIAN COUNTDOWN FEATURE MANUFACTURED BY 'DIALIGHT' PART NO. 430-6479-001X OR 'GE G11' PART NO. PS7-CFF1-Z6A.

  10. ALL VEHICLE SIGNALS SHALL HAVE 12' LENSES, TUNNEL VISORS, AND BACKRIATES, ALL SIGNAL INDICATIONS SHALL BE PROVIDED WITH LED UNITS. ALL MAST ARM MOUNTED OWNIFED VEHICLE HEADS OF TIVE-SECTION VEHICLE HEADS MOUNTED ON TYPE 1-A TOLES SHALL HAVE BACKPLATES. ALL REQUIRED MOUNTED ON TYPE 1-A TOLES SHALL HAVE BACKPLATES. ALL REQUIRED MOUNTEN ON THE 1-A TOLES SHALL HAVE DACKPLATES. ALL REQUIRED MOUNTINGS FOR NEW HEADS SHALL BE PROVIDED BY THE CONTRACTOR.
- MOUNTAINGS FOR HEAT READS SAILE BE PROVIDED BY THE CONTRALTOR.

  (XXXX) INDICATES LOOP ASSIGNMENT IN THE CONTROLLER CAGINET, EACH
  ASSIGNMENT SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROLLER.
  ALL MATERIALS AND EQUIPMENT SHALL BE NEW, FURNISHED AND INSTALLED BY
  THE CONTRACTOR UNLESS OTHERWISE NOTEO ON THE PLANS.
- 12. CONTRACTOR SHALL REPLACE ALL EXISTING PULL BOXES IF DAMAGED. (SEE SPECIAL PROVISIONS)
- 13. ALL TRAFFIC SIGNAL STANDARDS, VEHICLE AND LUMINAIRE MAST ARMS SHALL
  BE MANUFACTURED BY VALMONT INDUSTRIES OR EQUIVALENT. ALL VEHICLE
  AND LUMINAIRE MAST ARMS ARE STRAIGHT.
- AND LUMINATE MAST ARMS ARE STRAIGHT.

  14. ALL PAINT SHALL BE FURNISHED BY THE CONTRACTOR, PAINT SHALL BE GLOSS FINISH. THE CONTRACTOR SHALL FURNISH A COLOR CHIP TO THE ENGINEER FOR APPROVAL NEW THAFFIC SIGNAL EQUIPMENT TO BE PAINTED SHALL INCLUDE OF BACKET AND HOUSINGS, FEDERAL HOUSINGS, BACK FACES OF BACKET AND HOUSINGS, FEDERAL HOUSINGS, BACK FACES OF BACKET AND HOUSINGS, FEDERAL HOUSINGS, CONTROLLER CABINETS, COMMUNICATION CABINETS AND SERVICE CABINETS, PRIOR TO PAINT, THE SIGNAL POLES AND APPARATUS SHALL BE APPLIED A RUST INHIBITOR PRIMER TO COVER ALL EXTERIOR SURFACES PRIOR TO RESULT OF THE SIGNAL POLES AND ADMINISTRATION FOR PRIMER TO COVER ALL EXTERIOR SURFACES PRIOR TO RESULT OF THE SIGNAL POLES AND ADMINISTRATION FOR PRIMER TO COVER ALL EXTERIOR SURFACES PRIOR TO RESULT OF THE SIGNAL PRIMER TO COVER ALL EXTERIOR SURFACES PRIOR TO RESULT OF THE SIGNAL PRIMER TO COVER ALL EXTERIOR SURFACES PRIOR TO RESULT OF THE SIGNAL PRIMER TO THE SIGNAL PRIMER TO SURFACES PRIOR TO RESULT OF THE SIGNAL PRIMER TO THE SIGNAL PRIMER TO SURFACES PRIOR TO RESULT OF THE SIGNAL PRIMER TO THE SIGNAL PRIMER TO SURFACES PRIOR TO RESULT OF THE SIGNAL PRIMER TO THE

- SEE CIVIL PLANS FOR PEGESTRIAN RAMPS.

  TRAFFIC SIGNAL CONDUITS SHALL BE INSTALLED BY THE METHOD OF JACKING, BORING, DIRECTIONAL BORING OR TRENCHING WITH MINIMUM 36' OF COVER IN THE PAVEMENT AND MINIMUM 24' OF COVER IN THE SIDEWALK UNLESS OTHERWISE NOTEO (SEE STANDARD PROVISIONS).

  CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE OPERATION OF THE TRAFFIC SIGNAL DURING CONSTRUCTION BY PROVIDING TEMPORARY SIGNAL STANDARDS AND TEMPORARY OVERHEAD WIRING AS NECESSARY WITH NO ADDITIONAL COMPENSATION. SEE STAGE TRAFFIC SIGNAL PLANS.
- SEE STAGE TRAFFIC SIGNAL PLANS.
  ALL CAST—IN DRILLED HOLE FOUNDATIONS SHALL BE PRE-DRILLED AND BACKFILLED WITH ONE SACK SLURRY, CURED FOR A MINIMUM OF ONE DAY CAST—IN-DRILLED HOLE FOUNDATIONS LOCATED WITHIN 2 OF AM EXISTING GAS LINE CONTRACTOR SHALL NOTIFE FILE DRIGHER IN ADVANCE TO SCHEDULE THE CONTRACTOR SHALL NOTIFE FILE DRIGHER IN ADVANCE TO SCHEDULE SHALL NOTIFE FILE DRIGHER IN ADVANCE TO SCHEDULE WITH SHALL HAVE DOES FOUNDATION. CONTRACTOR SHALL HAVE DIE FOUNDATION AND MAINTAIN 6-INCHES OF SAND AROUND THE GAS LINE AND INSTALLATION OF REINFORCE CONCRETE. ALL VOID AREAS AROUND THE FOUNDATION SHALL BE BACKFILLED WITH SAND WITH SAND.
- 19. ALL NEW SIGNS SHALL HAVE THE RETROREFLECTIVE SHEETING AND PROTECTIVE FILM. PROTECT IN PLACE ALL EXISTING ABOVE GROUND SIGNAL AND COMMUNICATION CABINETS AND SERVICE ENCLOSUME AND INTERCONNECT CONDUITS CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL DAMAGED ITEMS WITH NO ADDITIONAL COMPENSATION.
- 21. CONTRACTOR SHALL PAINT ALL SIGNAL EQUIPMENT. COMMUNICATION CABINET, SERVICE CABINET AND CONTROLLER TO MATCH POLE COLORS RAL# 7011 EISENBRAU IRON GREY.
- 22. CONTRACTOR SHALL ADJUST ALL PULL BOXES TO GRADE.

### POLE AND EQUIPMENT SCHEDULE

	9	TANDARD			VEH	SIG MTG	COUNTDOWN	Α	PS	HPS	TIONS	LOCA	TION	
No.	TYPE	HEIGHT	SMA	LMA	MAST ARM	POLE	PED SIGNAL	ø	ARROW	LUM	IISNS	А	В	REMARKS
<b>(A)</b>	*	30′	40′	15′	2-MAS	SV-1-T SV-1-T	SP-1-T	6	-	(L)165#	Grand Ave	7'	2.5'	AB
®	××	30′	-	15′	~	SV-2-TA	SP-1-T	8	-	(L)165W	-	B.7'	5.0'	A
©	*** (N)	30'	65′	15'	3-MAS(N)	SV-1-T(N)	SP-1-T(N)	В	-	(L)165W(N)	Golden Springs Dr	10.5	2.5'	ABC
0	** (N)	30'	-	15'	-	SV-2-TA(N)	SP-1-T(N)	2	-	(L)165W(N)	-	10'	2.5'	A
Œ	××××	30′	35′	15′	2-MAS	SV-1-T	SP-1-T	2	-	(L)165W	Grand Ave	7'	5.5'	AB
(E)	××	30'	-	15'	-	SV-1-T	SP-1-T	4	-	(L)165W	-	5.5	2.5	A
©	××××	30'	55′	15'	3-MAS	SV-1-T	SP-1-T	4	-	(L)165W	Golden Springs Dr	8′	6'	AB
(B)	××	30′	-	15′	- 1	SV-2-TA	SP-1-T	6	-	(L)165W	-	14'		A

- 1. ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED : (N) = NEW, (R) = RELOCATE, (L) = NEW LED LUMINAIRE, (T) = TEMPORARY
- 2. ALL POLES ARE DECORATIVE TYPE AND SHALL MEET CALTRANS STANDARD PLANS 2015 EXCEPT AS NOTED.
- ALL POLES AND EQUIPMENT (VEHICLE SIGNAL HEADS AND BACKPLATE, PEDESTRIAN HOUSING AND MOUNTING, PUSH BUTTON HOUSINGS) SHALL BE COLORED RAL# TD11 EISENGRAU IRON GREY.
- A EXACT POLE LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- B EXISTING HISNS SHALL BE REUSED WITH NEW PAINT. SAME AS DECORATIVE POLE.
- C Ø5 SIGNAL HEAD RELOCATED TO END OF MAST ARM IN THE FUTURE.

- CATALOG # FOR THE OECORATIVE POLE, SEE STANDARD TECHNICAL PROVISIONS.

  \* BCNH02640-FL4S-26-4-100-40SMA-15LMA-K828-250HPS-FPGV
  \*\* BCNH01735-FL4S-15TS-15LMA-K828-250HPS-FPGV
  \*\*\* BCNH02640-FL4S-61-5-100-65SMA-15LMA-K828-250HPS-FPGV
  \*\*\*\* BCNH02640-FL4S-22-44-100-35SMA-15LMA-K828-250HPS-FPGV
  \*\*\*\*\* BCNH02640-FL4S-29-5-100-55SMA-15LMA-K828-250HPS-FPGV

## CONDUIT AND CONDUCTOR SCHEDULE

CABL	E :	SCHEDULE				CO	NDU	TR	JN N	UMBE	R A	ND S	IZE			
CABLE TYPE	S T D	PHASE	Δ	Æ	⅓	҈Ѧ	ß	Æ	A	A	<u>A</u>	℩	$\overline{\Psi}$	Æ	<u> 1</u> 3	14
VEH-PED/	<u>(a)</u>	3,4,8,8P,OLC 6	=/-	-/-	-/-	3(1)	2(1)	-/-	-/-	=	-/-	-/-	2/11	2/1		=
12050 /	(B)	5,6,6P,OLB	1	-/-	17/1	177		7	7	7	1	-/-	n)	ny,	-	5
/	0	2,5,2P	<u>-</u>	1/1	1/1	1/1	17	7	-/-		1	-	ĺν,		-	-
/	0	7,8,8P,OLC 3	1	1/1	1/1	1	17	5	-	-	1	-/-	1	n,	-	-
/		4,7,4P,0LA	1	5	-/	-	1	1	W.	NY.	W,	ĺν,	fy?	fit,	-/	-
/		1,29	<u>-</u>	5/-	-/-	-/-	-	-		1		1	1	n,	-	-
/	Õ	1,6,6P,OLB	5	57.	-/-	-	-	=/:	=/_	-/-	= "	= "	10X	忨	-/-	-
PPB 3CSC	Œ	3,4,4P,0LA 6	=/_	-/-	-/-	7	17	-/-	7	-	-/-	-/-	n:			-
		TOTAL	1	3/2	3/3	5/4	6/5	17	2/2	2/2	2/2	2/2	9/	9/	-	-
A₩G	X	CIRCUIT			Z2		L_J	k1	Z		·		عے		Z	·
5CSC		APS	2	-	(2)	-	(2)	(2)	-	~	-	-	_	-		-
#12		IISNS	-	2	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	-	-	-
#10		LIGHT1NG	2	2	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	-	-	-
#8		SERVICE	-	-	-	-	-	-		-	-	-	-	-	-	-
#6		SERVICE	-	-	-	-	-	-		-	-	-	-		-	-
		LOOP DLC							•					•		
PHASE 2			-	-	-	-	-	-	-	(2)	(2)	(2)	(2)	(2)	-	-
PHASE 4			-	-	-	-	2	-	-	-	-	-	(2)	(2)	-	-
PHASE 6			-	-	(2)	(2)	(2)	-	-	-	-	-	(2)	(2)	,	-
PHASE 8			2	2	2	2	2	-	-	-	-	-	(2)	(2)	1	-
		TOTAL	2	2	4	4	6	-	-	2	2	2	В	8	-	-
VIDEO C	AME	RA CABLE	Ι-	1	1	2	2	1	1	1	1	1	4	4	-	-
ALDEO C	AME	RA POWER	-	1	1	2	2	1	1	1	1	1	4	4	-	-
24 SMFO			-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 SMF0			-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCTV CA	BLE		~	-	-	(1)	(1)	-	-	-	-	(1)	(1)	(1)	-	-
	CO	NDUIT SIZE	2"	3"	(3")	<b>{4"</b> }	{4"}	{2"}	(3")	(3")	{OH}	(2-3")	[2-4"]	(2-4")	-	-
		NDUIT FILL (%)	24	15	25	20	25	26	13	15	1	В	18	17	$\vdash$	<del> </del>

ALL CONDUIT AND CONDUCTORS ARE NEW, UNLESS INDICATED OTHERWISE.

FLEY 0000 000

PREPARED BY

LIN CONSULTING, Inc.
MEN. ON, of Owner Course promote
21623 COPILEY DRIVE, SUITE 278
DRIVEN DRIVE, SHARES, LANGE COMP. SHARESTON.
MANUSCRIP. MANUSCRIP. AND COMP. SHARESTON.

(#) = EXISTING RENCHMARK

REVISIONS CHECKED BY

NEV DE WED CITY DADMER R.C.F. DATE TOP OF CURB-

POLE LOCATION DETAIL



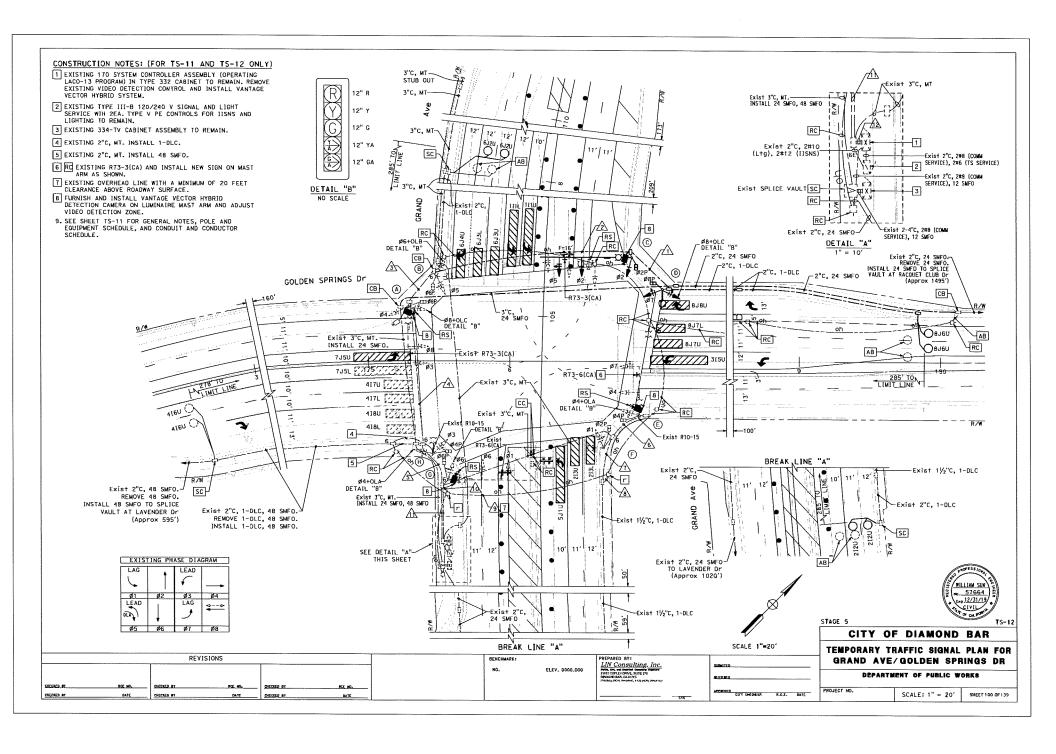
CITY OF DIAMOND BAR

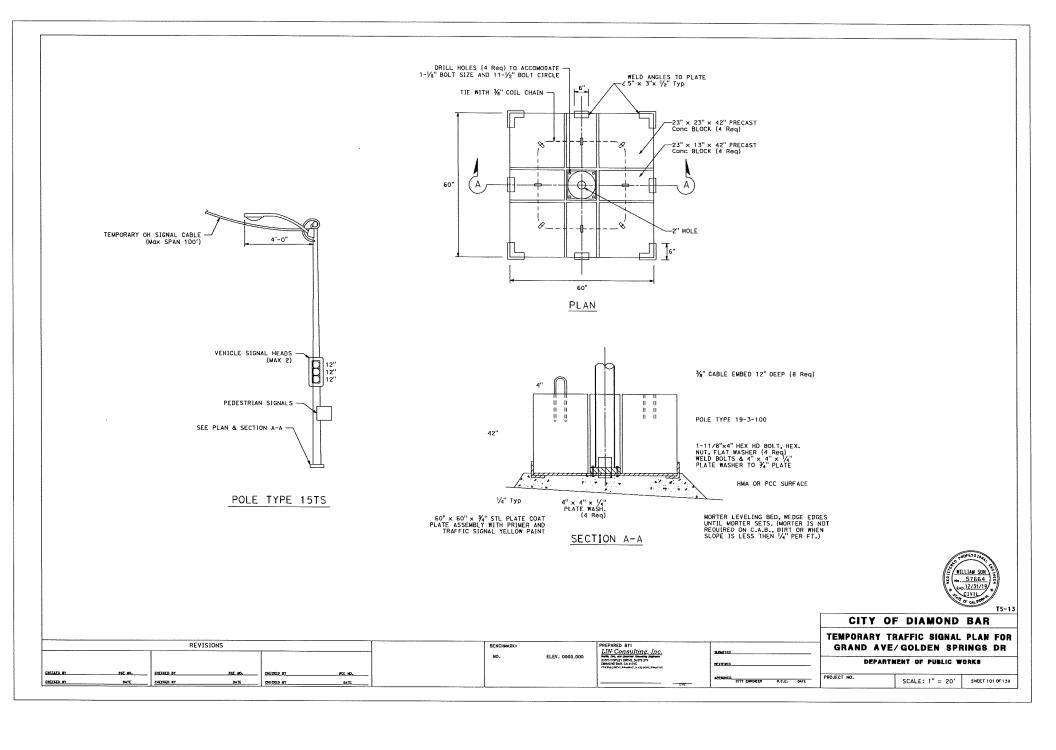
TEMPORARY TRAFFIC SIGNAL PLAN FOR GRAND AVE/GOLDEN SPRINGS DR

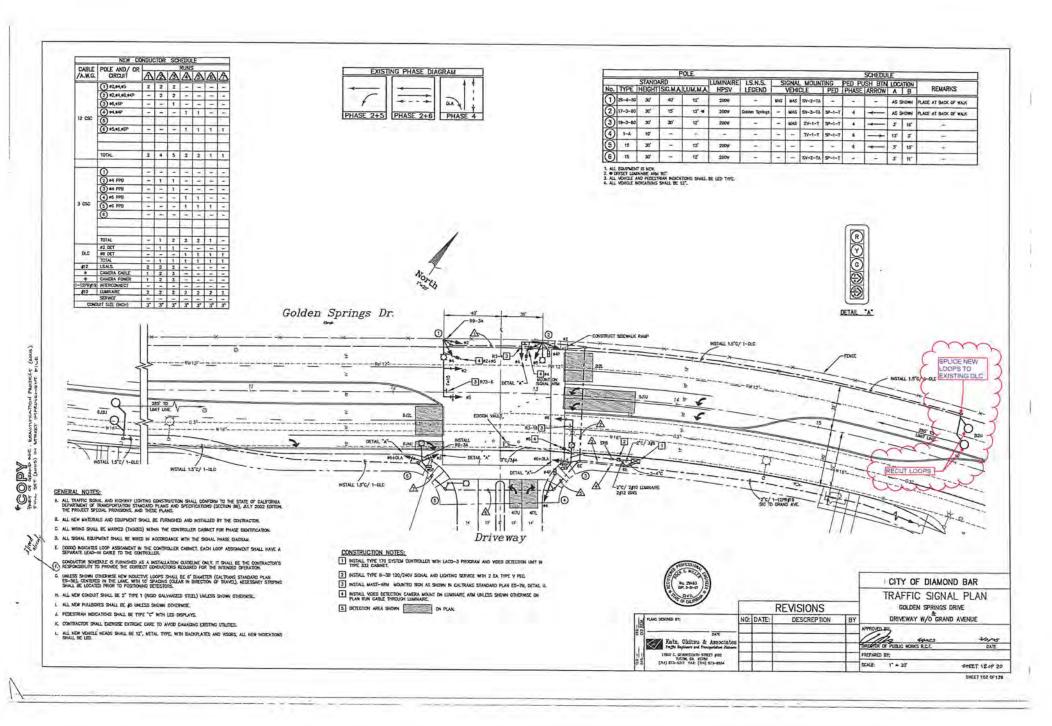
DEPARTMENT OF PUBLIC WORKS

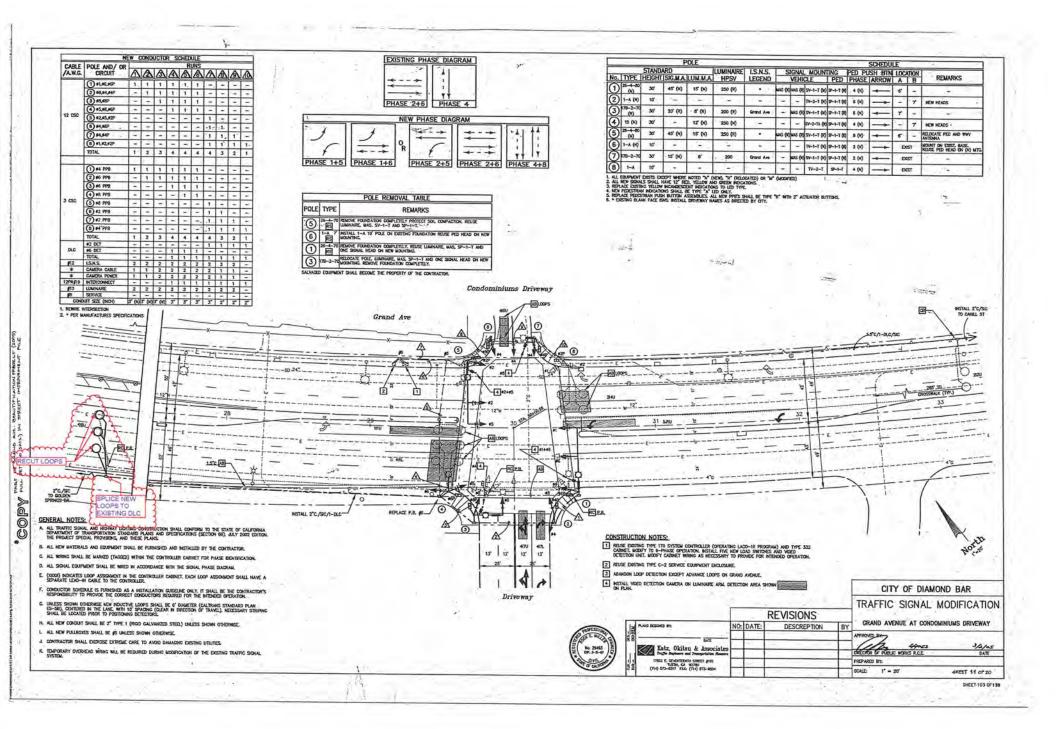
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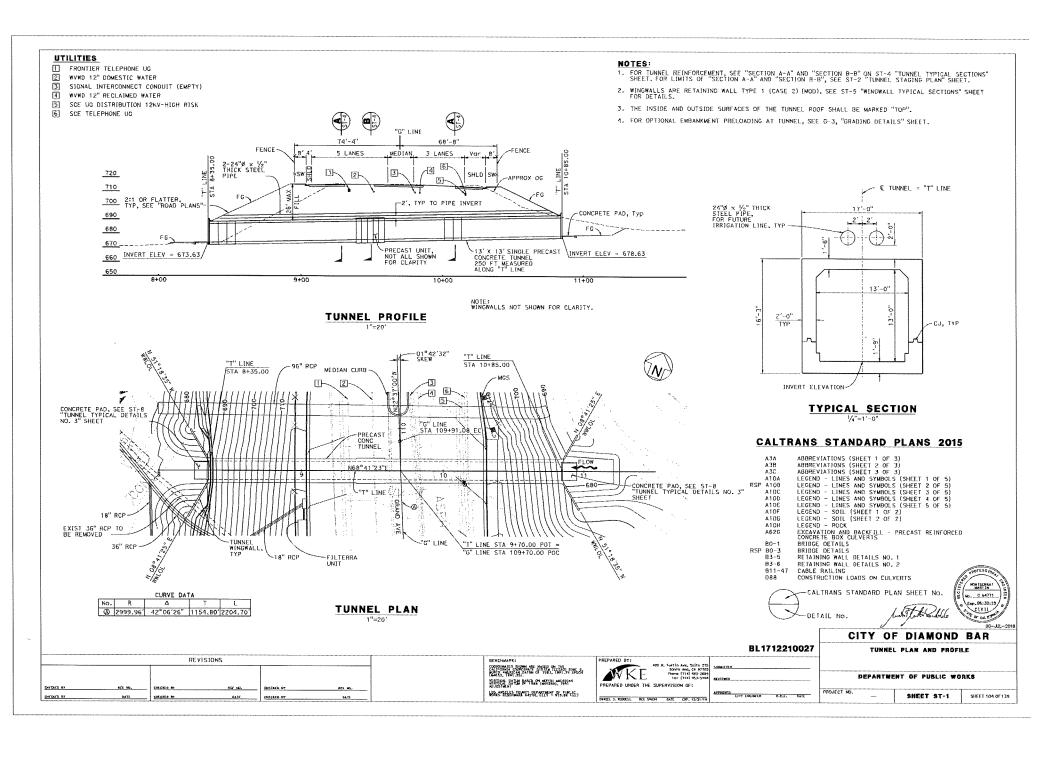
SHEET 99 OF 139

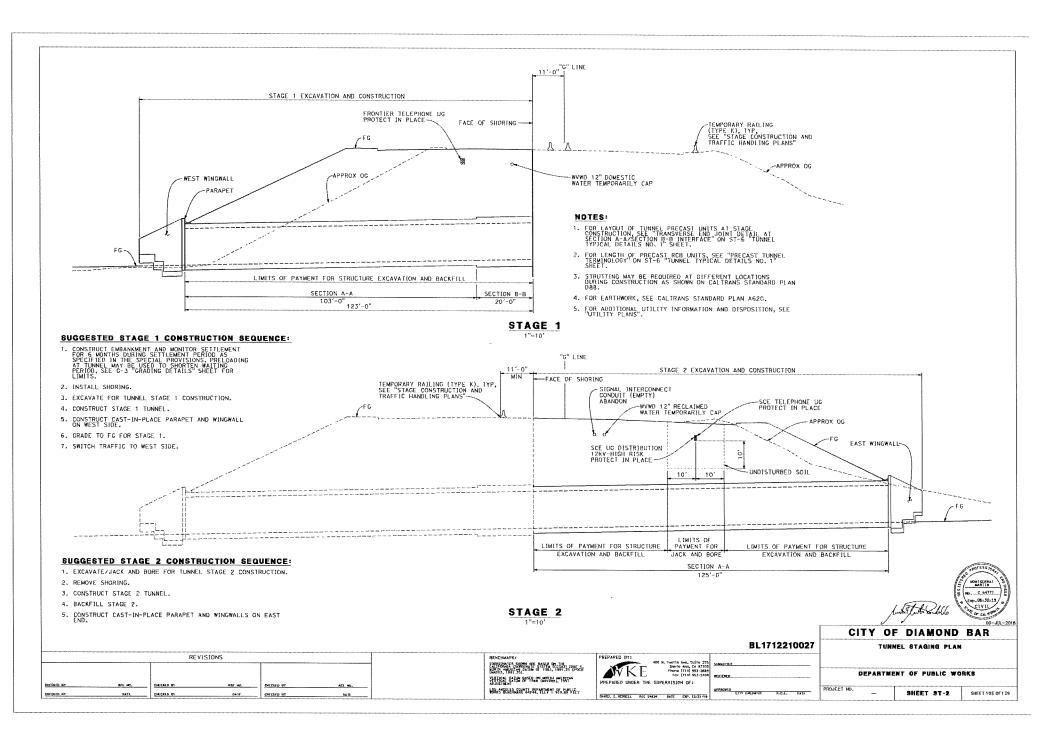


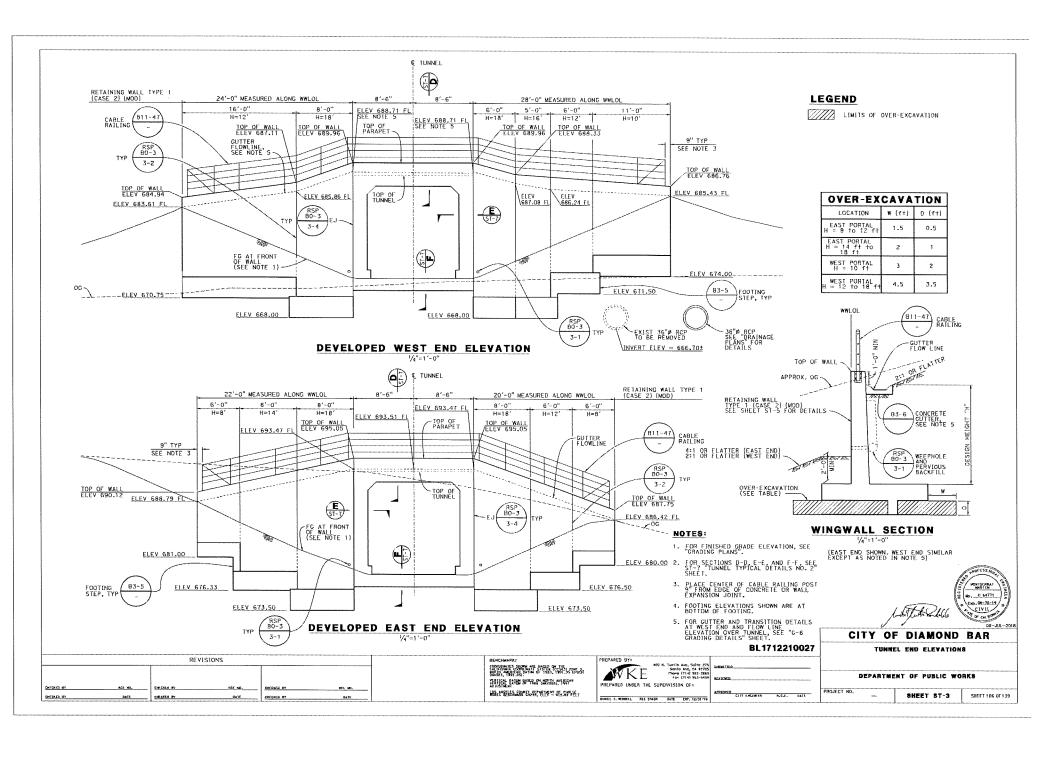


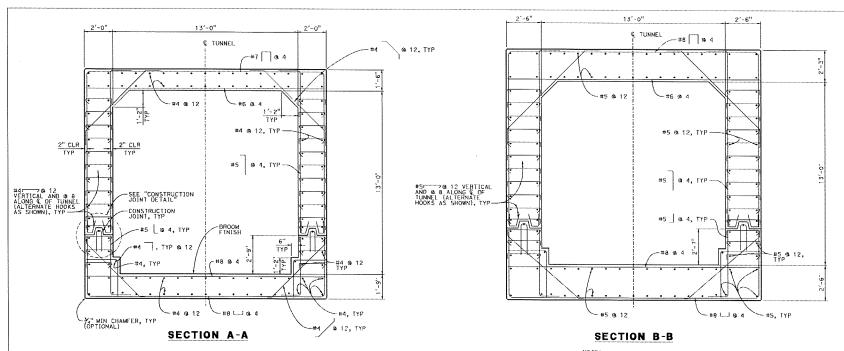












DESIGN NOTES:

TYPICAL SECTIONS

AASHTO LRED BRIDGE DESIGN SPECIFICATIONS, 2012 6TH EDITION WITH CALIFORNIA AMENDMENTS DATED JANUARY 2014.

EARTH LOAD:

EARTH PRESSURES FOR TWO CONDITIONS: 140 pcf Vert, 42 pcf Horiz 140 pcf Vert, 140 pcf Horiz

UNIT STRESSES:

SOIL PRESSURES:

SECTION A-A = 5.6 Ksf SECTION B-B = 8.1 Ksf

TUNNEL MUST CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND STANDARD SPECIFICATIONS 2015 EDITION.

- 1. FOR CONCRETE, THE CEMENTITIOUS MATERIAL MUST BE COMPOSED OF ONE OF THE FOLLOWING, BY WEIGHT:
  - 20 PERCENT NATURAL POZZOLAN OR FLY ASH WITH COO CONTENT OF UP TO 10 PERCENT, 5
    PERCENT SILICA FUME, AND 75 PERCENT PORTLAND CEMENT.
     12 PERCENT SILICA FUME, WEITAKADLIN, OR UFFA, AND 88 PERCENT PORTLAND CEMENT.
     50 PERCENT GGBFS AND 50 PERCENT PORTLAND CEMENT.
- 2. FOR CONCRETE, THE RATIO OF THE QUANTITY OF FREE WATER TO THE QUANTITY OF CEMENTITIOUS MATERIAL MUST NOT EXCEED 0.40.
- 3. STRUCTURAL OBSERVATION BY THE STRUCTUAL ENGINEER OF RECORD IS REQUIRED TO EMSURE NO STRUCTURAL DAMAGE HAS OCCURRED DURING LIFTING AND PLACING THE PRECAST UNITS.

REVISIONS DIFERENCE NO

CONTINUES SHOWN AT MAST OF THE STATE OF THE VESTICAL BARM SESTER MENTAL MESTER LOS CHISERES COUNTY US PARTIENT OF SUBJECT

PREPARED BY: WKE PREPARED UNDER THE SUPERVISION OF:

BL1712210027

NOTE: 1. FOR WALL THICKNESS AND REINFORCEMENT, SEE "SECTION A-A" AND "SECTION 8-8".

# CITY OF DIAMOND BAR

TUNNEL TYPICAL SECTIONS

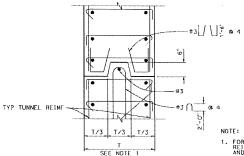
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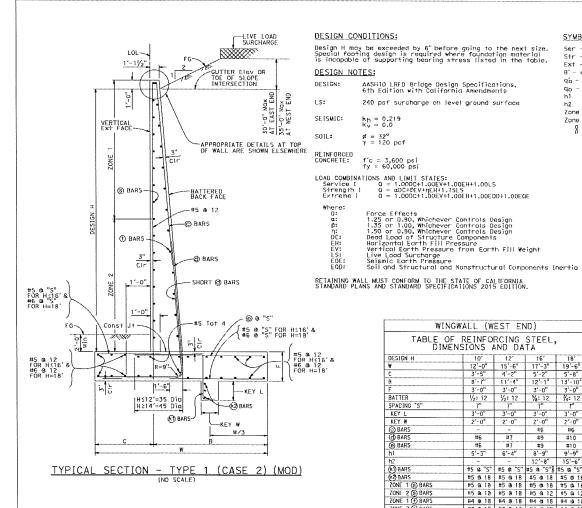
DEPARTMENT OF PUBLIC WORKS PROJECT NO. SHEET ST-4 SHEFT 107 OF 139

1/2"=1'-0"

NOTE: FOR INFORMATION NOT SHOWN, SEE "SECTION A-A".



CONSTRUCTION JOINT DETAIL NO SCALE



REVISIONS

CHECKE M

DIFCHTD BY

WIN	GWALL (W	ECT EN	ID )	***************************************
	····			
DIME	F REINFO ENSIONS A	KCING AND DA	SIEEL, TA	•
DESIGN H	10'	12'	16'	18'
¥	12'-0"	15'-6"	17'-3"	19'-6"
C	3′-5"	4'-2"	5'-2"	5'-8"
8	8' 7"	11'-4"	12'-1"	13'-10"
F	3'-0"	3'-0"	3'-0"	3'-0"
BATTER	1/z: 12	1/2: 12	%: 12	₹4: 12
SPACING "S"	7"	7"	7"	7"
KEY L	3'-0"	3'-0"	3'-0"	3'-0"
KEY W	2'-0"	2'-0"	2'-0"	2'-0"
(a) BARS	-	-	#6	#6
(d) BARS	#6	#7	#9	#10
(e) BARS	#6	#7	<b>*9</b>	#10
h1	5'-3"	6'~4"	8'-9"	à,-à,,
h2	-	-	12'-8"	15'-6"
(k1) BARS	#5 @ "S"	#5 a "5"	#5 @ "5" 8	#5 @ "S"
(k∂) BARS	#5 8 18	#5 @ 18	45 @ 18	#5 @ 18
ZONE 1 (S) BARS	#5 9.18	#5 6 18	#5 @ 18	#5 @ 18
ZONE 2 (3) BARS	#5 <b>9</b> . 18	#5 9 18	#5 @ 12	#5 Q 12
ZONE 1 (1) BARS	#4 @ 18	#4 @ 18	#4 (3.18	#4 6 18
ZONE 2 ① BARS	#4 9 18	#4 @ 18	#4 @ 12	#4 9 12
Ser: B', q'o	9.9, 2.4	13.9, 2.5	15.2, 3.0	17.8, 3.
Str: B', qo	9.0, 3.5	12.9, 3.6	14.0, 4.3	16.5, 4.5
Ext: B', qo	7.6, 3.3	10.9, 3.4	11.3, 4.3	13.2, 4.5

### SYMBOLS:

Ser - service limit state ( Str - strength limit state !

Ext - extreme event limit state ! B' - effective footing width (ft)

 $q_0^\prime$  - net bearing stress (ksf), OG assumed to be FG at toe

qo - grass uniform bearing stress (ksf) Top of footing to top of short @bar

Top of footing to top of @bar Top half of stem height Zone 1 ==

Zone 2 = Bottom half of stem height

Bundled Bars (2 Bars Per Bundle)

-@ BARS h2 H=10' TO 14' -SHORT @ BARS TOP OF **ELEVATION** 

H=16' TO 18'

### NOTES:

(83:5) 1. For details not shown and drainage notes see

2. For wall stem joint details see 3. At @ and short @ bars:

no splices are allowed within H/4 above the top of footing.

4. For concrete, the cementitious material must be composed of one of the following, by weight:

1. 20 percent natural pozzalan or fly ash with CaO content of up to 10 percent, 5 percent silica fume, and 75 percent portland cement.
12 percent silica fume, metakaolin, ar UFFA, and 88 percent portland cement.

50 percent GGBFS and 50 percent portland cement.

5. For concrete, the ratio of the quantity of free water to the quantity of cementitious material must not exceed 0.40.

WINGWALL (EAST END)						
TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA						
DESIGN H	8'	12'	14'	18'		
W	9'-6"	12'-6"	15'-6"	19'-6"		
C	3'-2"	4'-2"	4'-11"	5'-8"		
8	6'-4"	8'4"	10'-7"	13'-10"		
F	2'-0"	2'-6"	2'-8"	3'-0"		
BATTER	1/2: 12	½= 12	%: 12	⅓4: 12		
SPACING "S"	10"	7*	7"	7"		
KEY L	1'-0"	1'-3"	1'-3"	2'-0"		
KEY W	2'-0"	2'-6"	2'-6"	4'-0"		
© BARS	-	_	-	#6		
@ BARS	#6	#7	#8	#10		
(e) BARS	#6	#7	#8	#10		
ht	-	6'-4"	7'-6"	9'-9"		
h2	-	-	-	15'-6"		
(R) BARS	-			-		
(ka) BARS	-	-	-	-		
ZONE 1 (S) BARS	#5 @ 18	#5 OA 18	#5 @ 18	#5 @ 1B		
ZONE 2 (S) BAR5	#5 @ 18	#5 Q 18	#5 @ 12	#5 @ 12		
ZONE 1 (1) BARS	#4 @ 1B	#4 @ 18	#4 9 18	#4 @ 18		
ZONE 2 (1) BARS	#4 @ 18	#4 @ 18	#4 @ 12	#4 @ 12		
Ser: B', go	8.1, 1.8	10.8, 2.3		18.1, 3.0		
Str: 8', qo	7.4, 2.5	9.9, 3.4	13.1, 3.7	16.9, 4.4		
Ext: B', qo	6.6, 2.2	8.2, 3.2	10.8, 3.5	13.5, 4.4		

CITY OF DIAMOND BAR

No. C 64771 CIVIL

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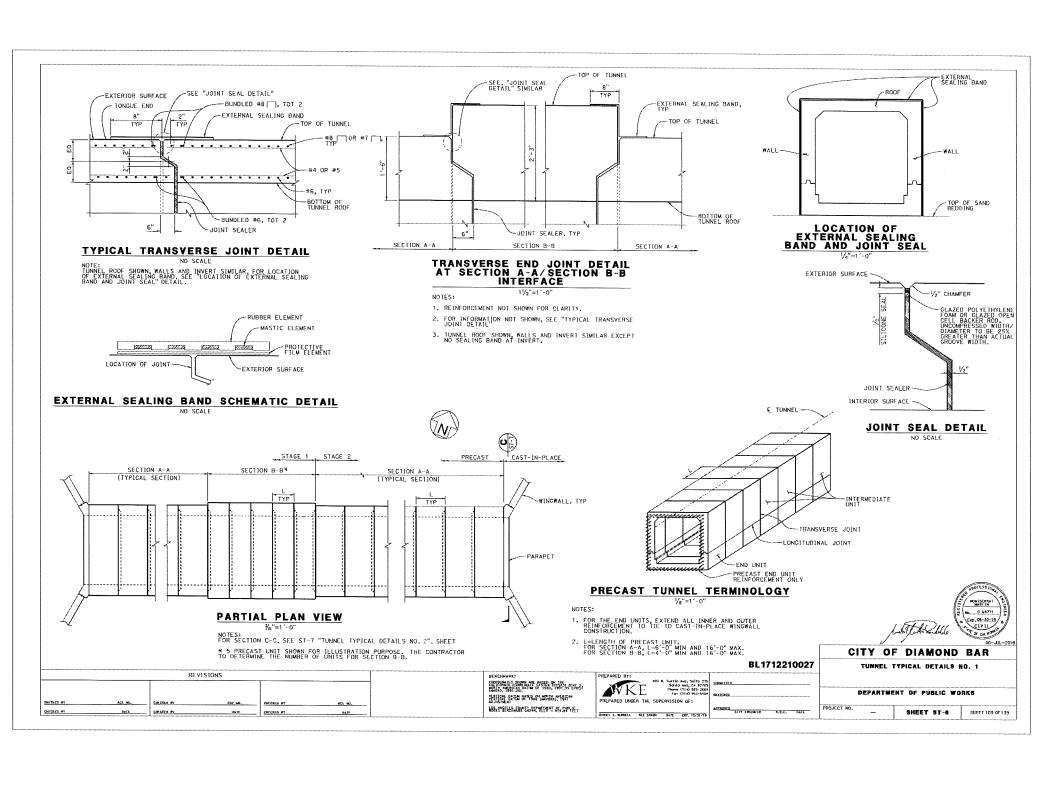
WINGWALL TYPICAL SECTIONS

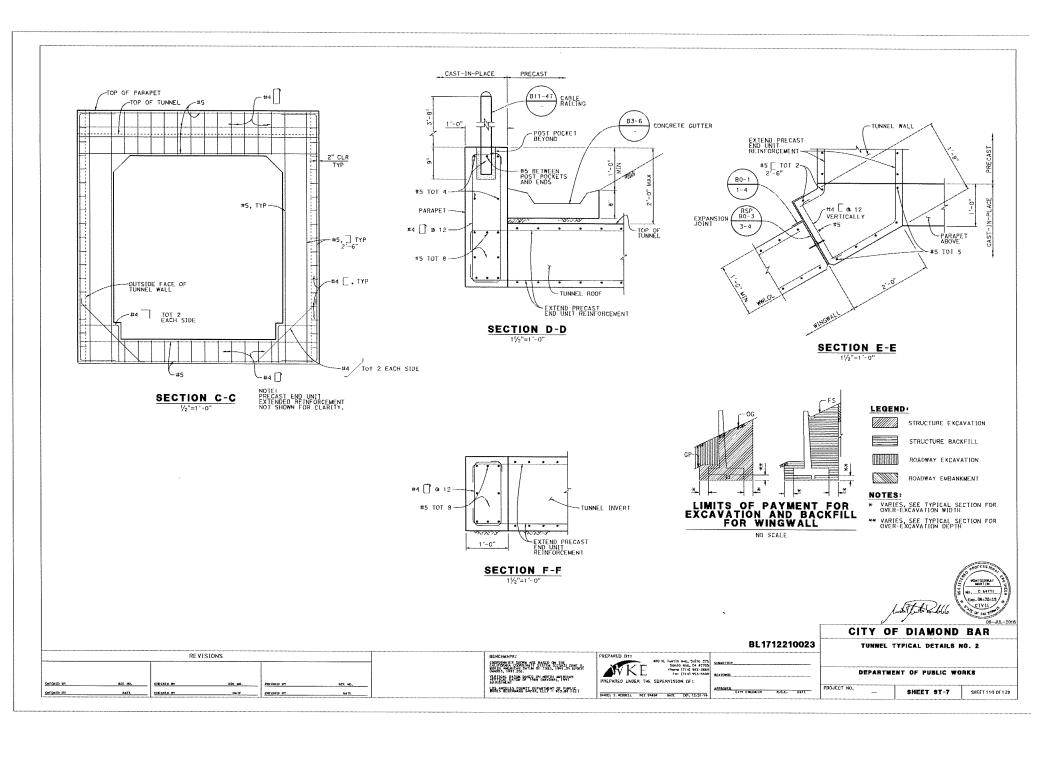
DEPARTMENT OF PUBLIC WORKS

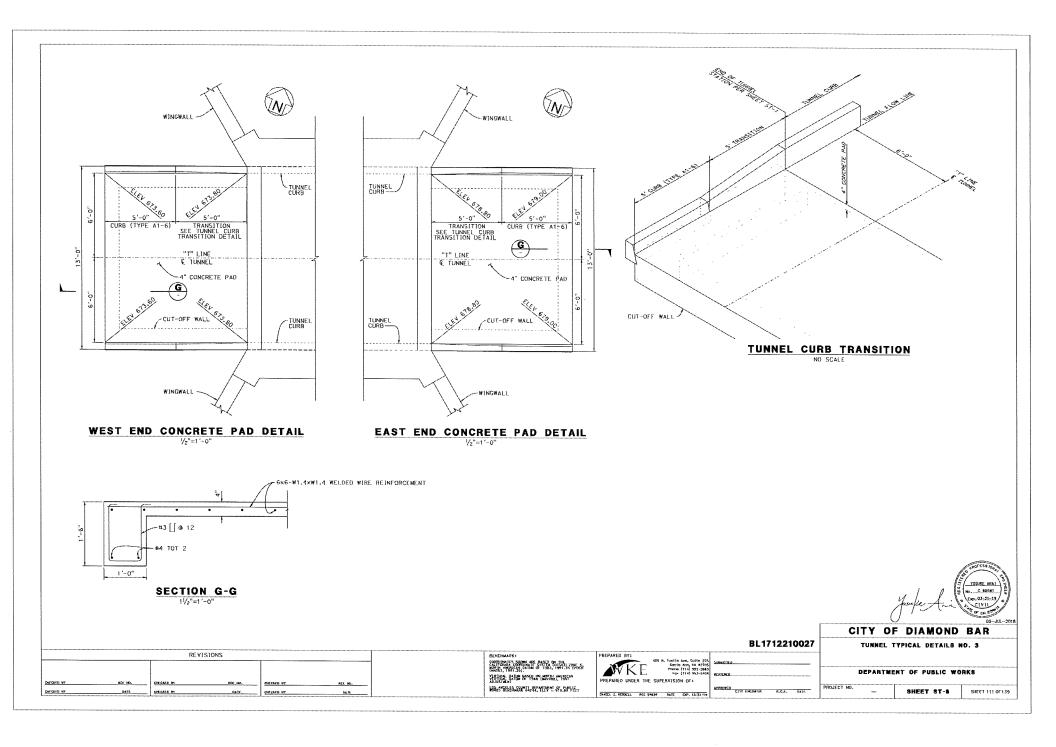
SHEET ST-5 SHEET 106 OF 139

		BENCHWAPK:
		COMPUNITY SHAPE AND THE STATE OF THE STATE O
D' NU.	DIFFORD BY REL NO.	VIRTUES BATTON BATTON
MANE	CHICKER BY BATE	Market Geren water and the state of the stat

> PREPARED UNDER THE SUPERVISION OF: DANIEL S. MERRELL REE SAME DATE DRP. 12/31/16

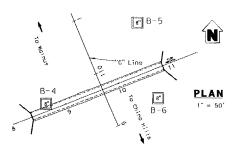






### NOTES:

- (1) This LOTB sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification and Presentation Manual (June 2010).
- (2) 2.4" samples were taken using a California Modified Sampler.
- (3) An automatic trip hammer system consisting of a hammer weight of 140 lbs falling a distance of 30" was used to advance the drive sampler.
- (4) Conversion factor from 2.4" Madified California Ring Sompler blowcounts to Standard Penetration Test (SPT) blowcounts is 0.5.
- (5) Groundwater level con fluctuate due to secsonal rainfoll amount-lacal irrigation and groundwater recharge program, and other mach conditions. Therefore, groundwater during construction could be higher than those noted.

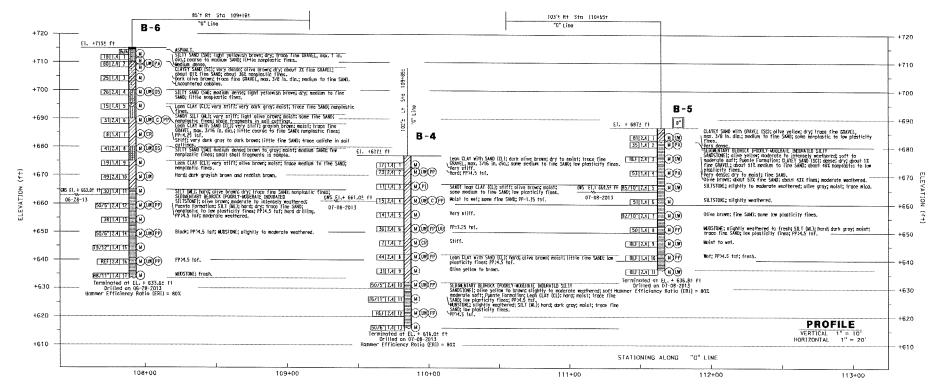


### Bench Mark:

Horizantal control is based on Caltrans GPS points 1001 and 1002 from TLI Control Project done Jan 2000. Coordinates shown are based on the California Coordinate System (CCS81) Zone 5, 1983 NAD (1992.88 EPOCH). Vertical control is based on Caltrans Benchmark 38-C-74, a standard disk, down 1.2 $\%_2$ , 63 $\%_2$  left of Centerline Baseline relocated 374+85.00. Elev = 1298.37 feet 1929 NGVD, 1978 Adjustment, dated Dec. 1990.



Line Cheang

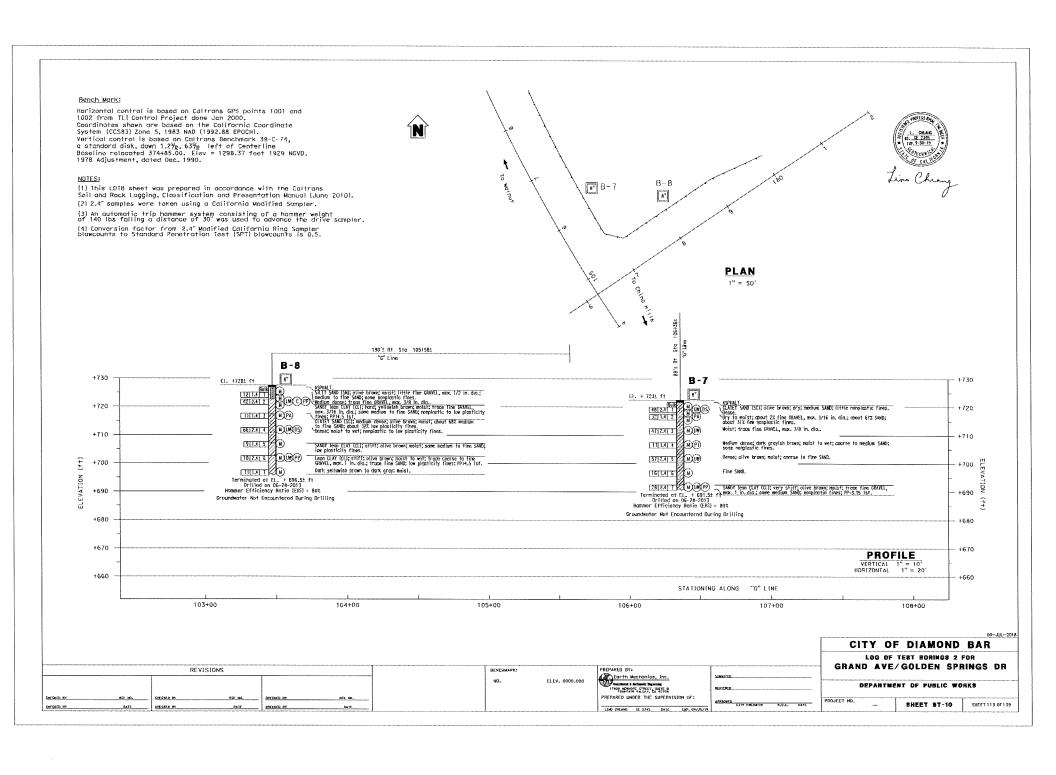


06-- J.IL--2018 CITY OF DIAMOND BAR LOG OF TEST BORINGS 1 FOR GRAND AVE/GOLDEN SPRINGS DR REVISIONS BENCHMARK PREPARED BY: Earth Mechanics, Ins.

Gentled & Bright Rights

17600 NEWOOT STREET, SUITE &

TRIBITION VALUE, 2 17708 180. ELEV. 0000.000 DEPARTMENT OF PUBLIC WORKS DAFDAM & CHECKED MY CHECKED BY PREPARED UNDER THE SUPERVISION OF: PROJECT NO. SHEET ST-9 SHEET 112 0F139



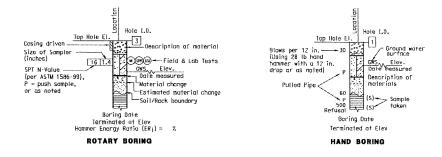
REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

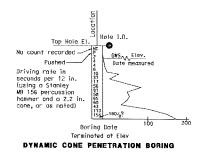
CEMENTATION				
Description	Criteria			
Weok	Crumbles or breaks with handling or little finger pressure.			
Moderate	Crumbles or breaks with considerable finger pressure.			
Strong	Will not crumble or break with finger pressure.			

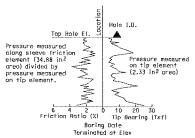


BOREHOLE IDENTIFICATION					
Symbol	Hole Type	Description			
5+20	А	Auger Boring (hollow or solid stem bucket)			
Sizo	R RW RC P	Rotary drilled boring (conventional) Rotary drilled with self-casing wire-line Rotary core with continuously-sampled, self-casing wire-line Rotary percussion boring (air)			
	R	Rotary drilled diamond core			
\$155 \$1	HD HA	Hand driven (1-inch soil tube) Hand Auger			
•	D	Dynamic Cone Penetration Boring			
<b>A</b>	CPT	Cone Penetration Test (ASTM D 5778)			
E3	0	Other (note on LOTB)			
	L	Note: Size in inches.			

CONSISTENCY OF COHESIVE SOILS					
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, IV, (tsf)	Vane Shear Measurement, VS, (tsf	
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12	
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25	
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5	
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1	
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2	
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than Z	







CONE PENETRATION TEST (CPT) BORING

			06-JJL-2018
			CITY OF DIAMOND BAR
			LOG OF TEST BORINGS 3 FOR
REVISIONS	SENCHMAPK: PREPARED BY:		GRAND AVE/GOLDEN SPRINGS DR
	NO. ELEY, 0000,000 Earth Wechenica, Inc.	Sellenten	
	Table Agents - Barriage - Barriage - Barriage - Table - Agents - Agent	ECYLOGII	DEPARTMENT OF PUBLIC WORKS
ONFORM BY SCHOOL SHEEKE BY REF NO. CHECKES BY REF NO.	PREPARED UNDER THE SUPERVISION OF	APPROVED	PROJECT NO.
GALCOLD BL. BYLE SPECIES EL. GPIN. GALCOLD BL. GTCTALD BL.	LING CHEATE TELEVIS SAIL DOT.	COLUMN EST EMPLIATER E.C.E. DATE	- SHEET 8T-11 SHEET 114 OF 139

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

GROUP SYMBOLS AND NAMES						
Graphi	c/Symbol	Group Names	Graphi	c/Symbol	Group Names	
000°	GW GP	Well-graded GRAVEL Well-graded GRAVEL with SAND Poorly-graded GRAVEL		CL	Lean CLAY Lean CLAY with SAND Lean CLAY with GRAVEL SANDY lean CLAY SANDY lean CLAY GRAVELL GRAVELLY lean CLAY	
	GW-GM	Poorty-graded GRAVEL with SAND Well-graded GRAVEL with SILT Well-graded DRAVEL with SILT and SAND			GRAVELLY lean CLAY with SAND SILTY CLAY SILTY CLAY with SAND SILTY CLAY with GRAVEL	
5	GW-GC	Well-graded GRAVEL with CLAY for Still CLAY Well-graded GRAVEL with CLAY and SAND for Silly CLAY and SAND)		CLML	SANDY SILTY CLAY SANDY SILTY CLAY WITH GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY WITH SAND	
	GP-GM	Poorly-graded GRAVEL with SILT Poorly-graded GRAVEL with SILT and SAND		MIL.	SILT SILT with SAND SILT with GRAVEL SANDY SILT	
	GP-GC	Poorly-graded GRAVEL with CLAY for SLLTY CLAY) Poorly-graded GRAVEL with CLAY and SAND (of SILTY CLAY and SAND)	بِلِا		SANDY SILT with GRAVEL GRAVELLY SILT with SAND ORGANIC lean CLAY	
	GM	SILTY GRAVEL SILTY GRAVEL with SAND CLAYEY GRAVEL		OL	ORGANIC Lean CLAY with SAND ORGANIC Lean CLAY with GRAVEL SANDY ORGANIC Lean CLAY	
	cc	CLAYEY GRAVEL WITH SAND SILTY, CLAYEY GRAVEL			SANDY ORGANIC lean CLAY with GRAVEL GRAVELLY ORGANIC lean CLAY GRAVELLY ORGANIC lean CLAY with SAND ORGANIC SILY	
	GC-GM	SILTY, CLAYEY CRAVEL WITH SAND Well-graded SAND	}}}	OL.	ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT WITH GRAVEL	
	5 <b>W</b>	Well-graded SAND with GRAVEL Poorly-graded SAND	\$		GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT with SAND FOT CLAY	
• 111	SP	Poorly-graded SAND with GRAVEL Well-graded SAND with SILT		СН	FOT CLAY WITH SAND FOT CLAY WITH GRAVEL SANDY FOT CLAY SANDY FOT CLAY WITH GRAVEL	
	SW-SM	Well-graded SAND with SILT and GRAVEL Well-graded SAND with CLAY or SILTY CLAY)			GRAVELLY for CLAY GRAVELLY for CLAY with SAND Elostic SILT	
	SP SM	veil-graded SAND with CLAY and CRAVEL (or SILTY CLAY and GRAVEL) Poorly-graded SAND with SILT	-	мн	Elastic SELT with SAND Elastic SELT with GRAVEL SANDY elastic SELT SANDY elastic SELT with GRAVEL	
<u> </u>		Poorly-graded SAND with SILT and GRAVEL Poorly-graded SAND with CLAY (or SILTY CLAY)	000		GRAVELLY elastic SILT GRAVELLY elastic SILT with SAND ORGANIC for CLAY	
	SP-SC	Poorly-graded SAND with GLAY and GRAVEL) SILTY SAND		он	ORGANIC for CLAY with SAND ORGANIC for CLAY with GRAVEL SANDY ORGANIC for CLAY SANDY ORGANIC for CLAY with GRAVEL	
	SM	SILTY SAND with GRAVEL			GRAVELLY ORGANIC for CLAY GRAVELLY ORGANIC for CLAY with SAND ORGANIC elostic SILT	
	sc	CLAYEY SAND WITH GRAVEL SILTY, CLAYEY SAND	<b> }</b> }}	он	ORGANIC eigstic SILI with SAND ORGANIC eigstic SILT with GRAVEL SANDY ORGANIC eigstic SILT SANDY ORGANIC eigstic SILI with GRAVEL	
4	SC-SM	SILTY, CLAYEY SAND with GRAVEL			GRAVELLY ORGANIC elastic SILT with SAND ORGANIC SOIL ORGANIC SOIL	
, , , , ,	Ь1	PEAT		OL/OH	ORGANIC SOIL WITH SAND ORGANIC SOIL WITH GRAVEL SANDY ORGANIC SOIL	
		COBBLES COBBLES and BOULDERS BOULDERS	F.F.		SANDY ORGANIC SOIL WITH GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL WITH SAND	

#### FIELD AND LABORATORY Testing

- C Consolidation (ASTM 0 2435)
- (CL) Collapse Potential (ASTM D 5333)
- (CF) Compaction Curve (CTM 216)
- CR Corrosivity Testing (CTM 643, CTM 422, CTM 417)
- CU Consolidated Undrained Trioxial (ASTM D 4767)
- (DS) Direct Shear (ASTM D 3080)
- (EI) Expansion Index (ASIM D 4629)
- M) Moisture Content (ASTM D 2216)
- (OC) Organic Content-% (ASTM D 2974)
- (P) Permeability (CTM 220)
- (PA) Particle Size Analysis (ASTM D 422)
- PI Plasticity Index (AASHIO I 90) Liquid Limit (AASHIO I 89)
- (PL) Point Loud Index (ASTM D 5731)
- PM Pressure Meter
- (R) R-Value (CTM 301)
- (SE) Sand Equivalent (CTM 217)
- (SG) Specific Gravity (AASHTO T 100)
- (SL) Shrinkage Limit (ASTM D 427)
- (SW) Swell Potential (ASTM D 4546)
- Unconfined Compression-Soil
  (ASIM D 2166)
  Unconfined Compression-Rock
  (ASIM D 2938)
- UU Unconsolidated Undrained Iriaxial (ASIM D 2850)
- (UW) Unit Weight (ASTM 0 47G7)



APPARENT DENSIT	Y OF COHESIONLESS SOILS
Description	SPI N <sub>60</sub> (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE				
Description Criteria				
Dry	No discernable moisture			
Moist	Moisture present, but no free water			
₩et	Visible free water			

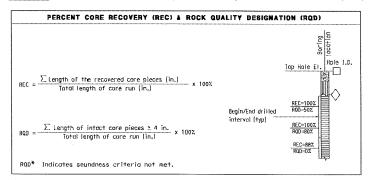
PERCE	NT OR PROPORTION OF SOILS					
Description Criteria						
Trace	Particles are present but estimated to be less than 5%					
Few	5% ·· 10%					
Little	15% - 25%					
Some	30% - 45%					
Mostly	50% - 100%					

PARTICLE SIZE					
Des	cription	Size (in.)			
Boulder		Greater than 12			
Cobble		3 - 12			
Gravel	Coarse	3/4 - 3			
oi ave:	Fine	1/5 ~ 3/4			
	Coarse	1/16 - 1/5			
Sand	Medium	1/64 - 1/16			
	Fine	1/300 - 1/64			
Silt and C	lay	Less than 1/300			

CITY OF DIAMOND BAR

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		REVISIONS		SENCHMAPK:		PREPARED BY:		GRAND AVE/	GOLDEN SPR	INGS DR
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REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)



ROCK HARDNESS					
Description	Criterio				
Extremely Hard	Connot be scratched with a pocketknife or sharp pick. Can only be chipped with repealed heavy hammer blows.				
Very Kand	Cannot be scratched with a pocketknife or sharp pick. Breaks with repeated heavy hammer blows.				
Hard	Can be scratched with a pocketknife or sharp pick with difficulty (heavy pressure). Breaks with heavy hammer blows,				
Moderately Hord	Con be scratched with pocketknife or sharp pick with light or moderate pressure. Breaks with moderate hammer blows.				
Moderately Soft	Can be grooved 1/16 in. deep with a pocketknife or sharp pick with moderate or heavy pressure. Breaks with light hammer blow or heavy manual pressure.				
Soft	Can be grooved or gouged easily by a pocketknife or sharp pick with light pressure, can be scratched with fingernnil. Breaks with light to moderate manual pressure.				
Very Soft	Can be readily indented, grooved or gouged with fingernall, or carved with a pocketknife. Breaks with light manual pressure.				

FRACTURE DENSITY			
Description	Observed Fracture Density		
Unfractured	No fractures.		
Very Slightly Fractured	Core lengths greater than 3 ft,		
Slightly Fractured	Core lengths mostly from 1 to 3 ft.		
Moderately Fractured	Care lengths mostly from 4 in. to 1 ft.		
Intensely Fractured	Core lengths mostly from 1 to 4 in.		
Very Intensely Fractured	Mostly chips and fragments.		

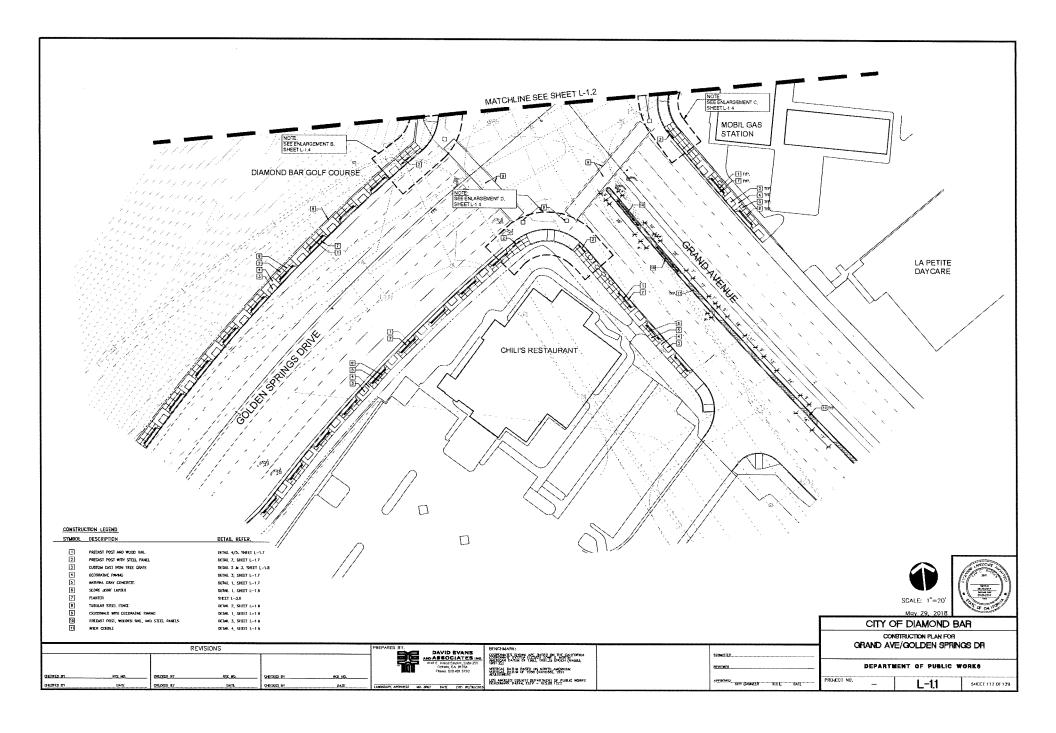
BEDDING	8PACING
Description	Thickness / Spacing
Massive	Greater than 10 ft
Very Thickly Bedded	3 ft - 10 ft
Thickly Redded	1 ft - 3 ft
Moderately Bedded	4 in 1 ft
Thinly Bedded	1 in 4 in.
Very Thinly Gedded	1/4 in 1 in.
Laminated	Less thon 1/4 in.

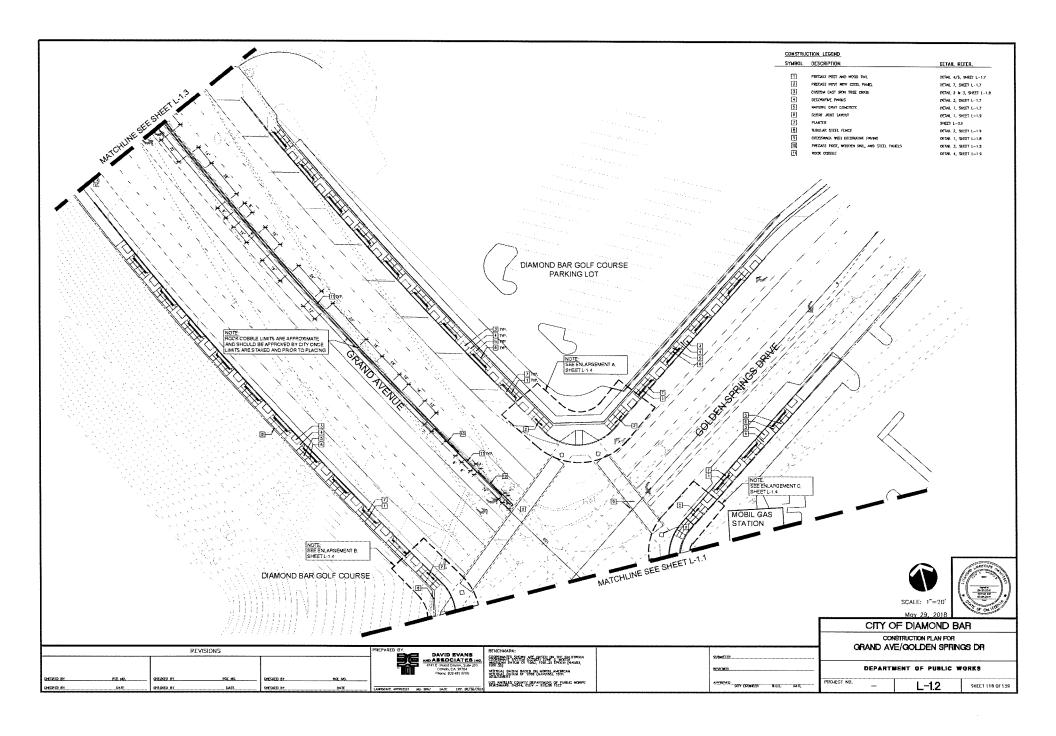
EGEND	OF ROCK MATERIALS
	IGNEOUS ROCK
	SEDIMENTARY ROCK
	METAMORFHIC ROCK

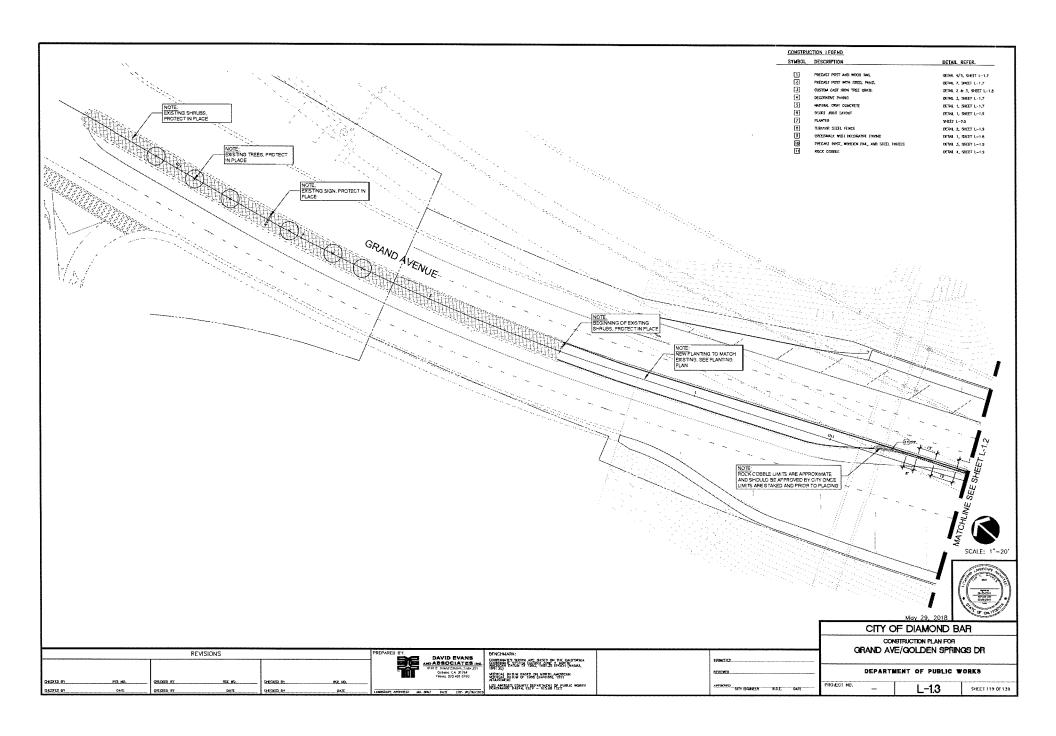


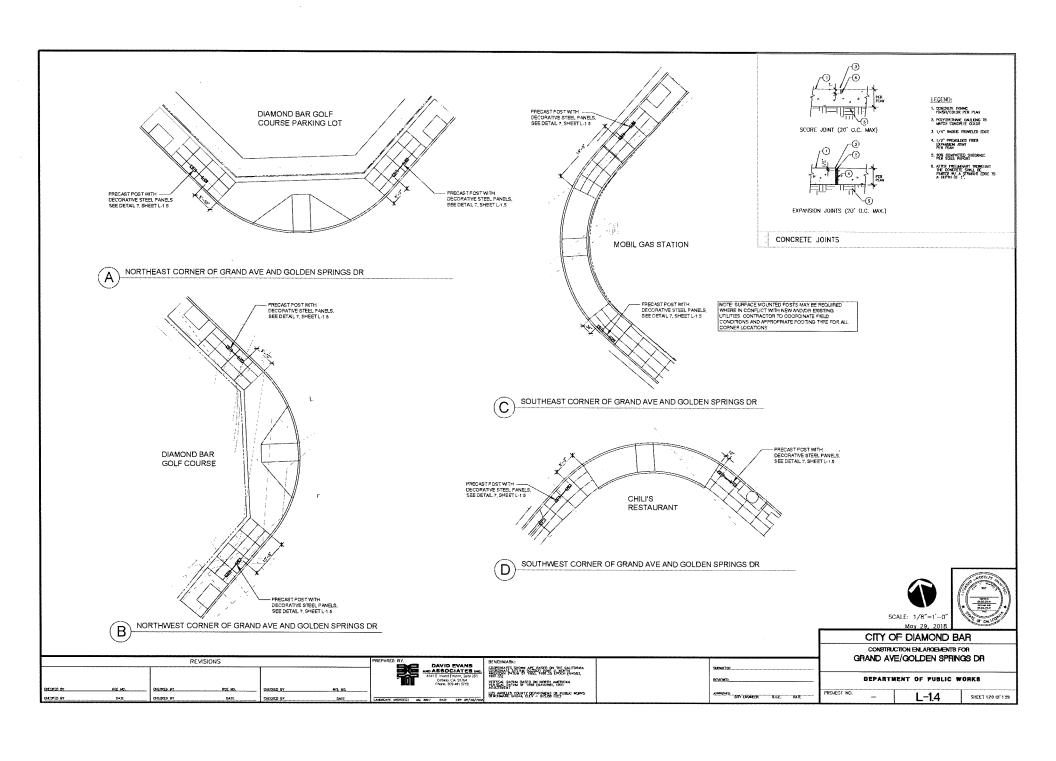
		Diagn	ostic Features				
Description	Chemicol Weathering and/or Oxid	-Discoloration lation	Mechanical Weathering- Grain Boundary (ondi- tions (Disaggregation)	Texture	and Leaching	General Characteristics	
·	Body of Rock	Fracture Surfaces	Primarily for Granitics and Some Coarse-Grained Sediments	Texture	Leaching	General characteristics	
Fresh	No discoloration, not exidized.	No discoloration or oxidation.	No separation, intact (tignt).	No change	No leaching	Hammer rings when crystalline rocks are struck.	
Slightly Weathered	Discoloration or oxida- tion is timited to sur- face of, ar short dis- tance from, fractures; some feldspar crystals are dull.	Minor to complete discoloration or oxidation of most surfaces,	No visible separation, intact (tight).	Preserved	Winor leaching of some solu- ble minerals.	Hommer rings when crystalline rooks are struck. Body of rock not weakened.	
Moderately Weathered	Discoloration or exidation extends from fractures usually throughout; Fe_Mg minerals are "rusty," feldspar crystals are "cloudy."	All fracture surfaces are discolored or oxidized.	Portial separation of boundaries visible.	Generally preserved	Soluble min- erals may be mostly leached.	Hammer does not ring when rock is struck. Body of rock is slightly weakened.	
Intensely Weathered	Discoloration or oxi- dation throughout; all feldspars and Fe-Mg minerals are altered to clay to some extent; or chemical olteration produces in-situ dis- aggregation, see grain boundary conditions.	All fracture surfaces are discolored or oxidized, surfaces friable.	Partial separation, rock is friable; in semiarid conditions gravitics are disaggregated.	Texture aftered by chemical disintegra- tion (by- dration, orgiliation).	Leoching of soluble min- erals may be complete.	Bull sound when struck with hommer, usually con be broken with moderate to heevy manual pressure or by light hammer blow without reference to planes of weakness such as incipient or hairline froc- tures, or veinlets. Bock is significantly weakened.	
Decomposed	Discolored or oxidized throughout, but resis- tant minerals such as quortz may be unaltered; all feldspars and Fe-Mg minerals are completely altered to clay.		Complete separation of grain boundaries (disaggregated).	leaching of s	remnant rock y be preserved;	Can be granulated by hand. Resistant minerals such as quartz may be present as "stringers" or "dikes."	

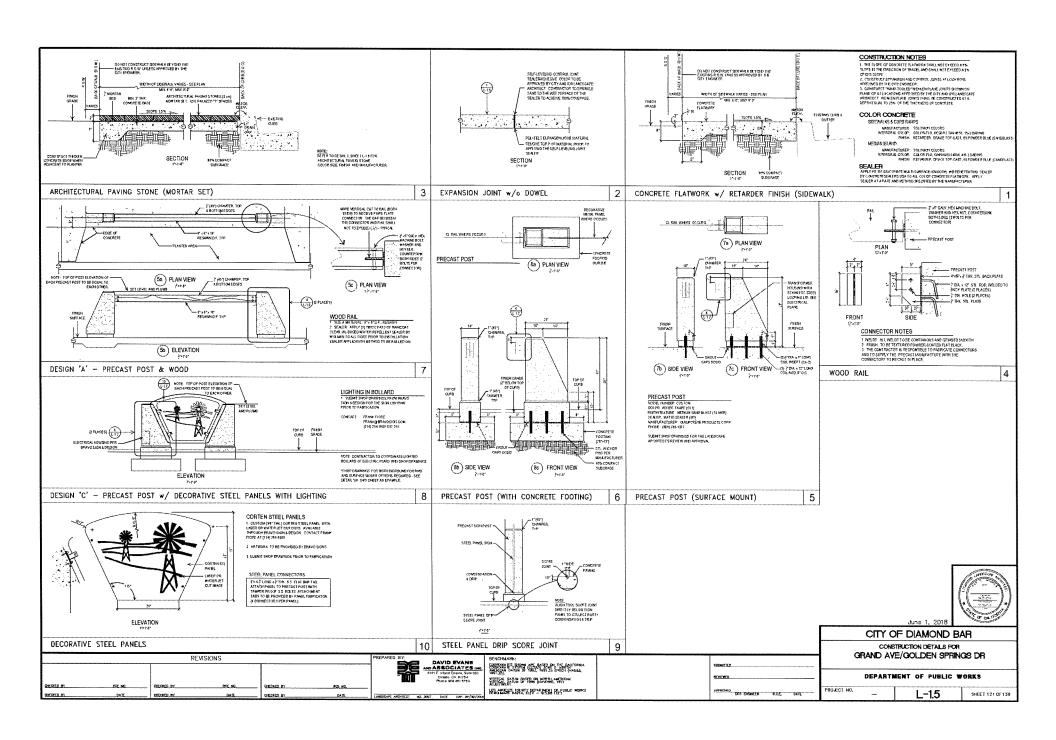
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		REVISION	NS				BENCHMARK:		PREPARED BY:		GRAND AVI	COLDEN SPI	TINGS DR
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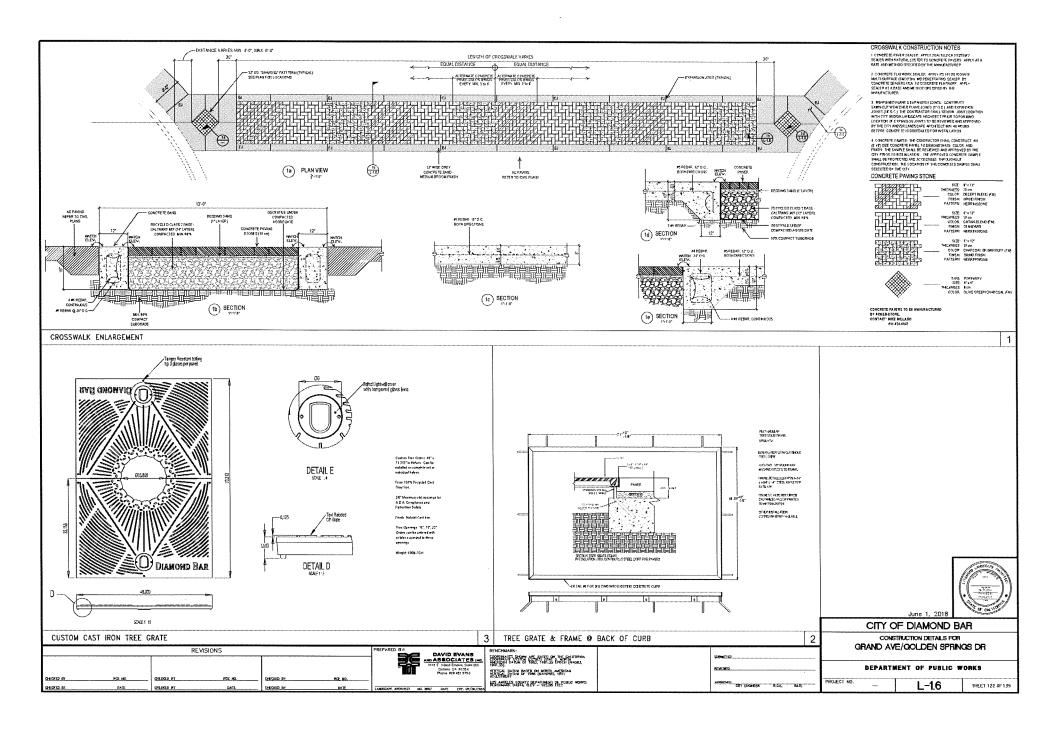


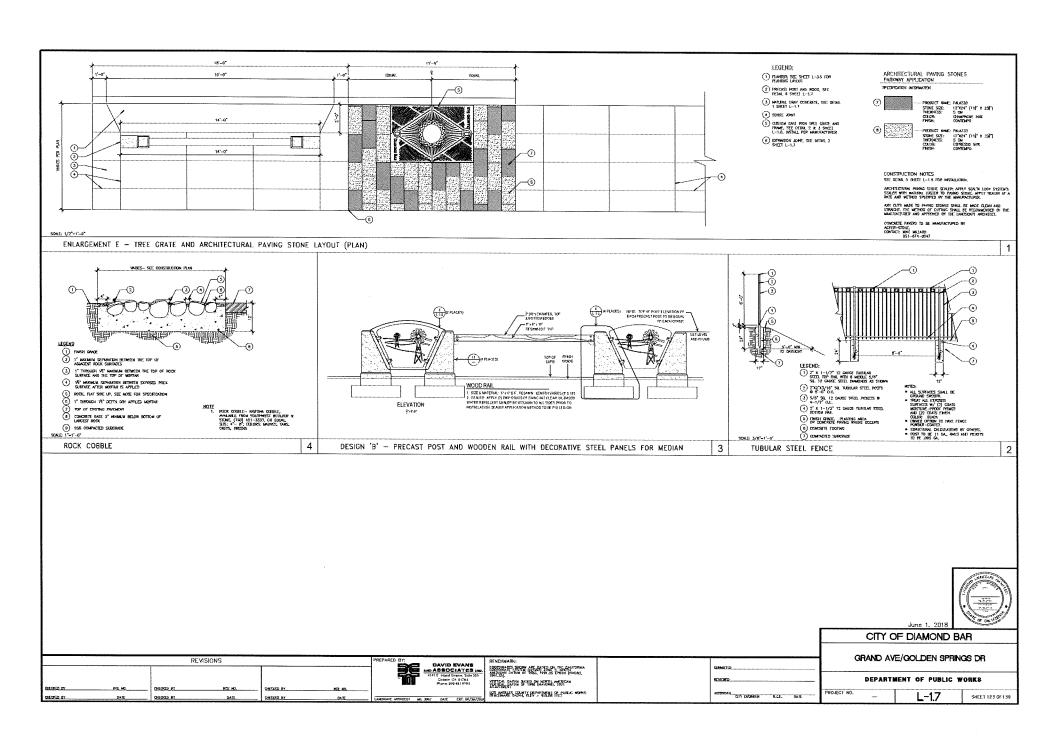












#### GENERAL IRRIGATION NOTES:

- TI IS THE WIEM OF THESE ENVIRONS TO MIDDATE A COMPLETE AND OPERATIONAL EPROLITION STSTEM CHARLE COMPLICE AND PREVENTIVE LEGS BY THE CHARCE. HIGHEST EMBRAGES MET DATED ON THE COMPLETION, CHARGES AND THE CHARLES AND THE CHARLES AND THE CHARGES. AND AND SHALL BUILDED. HIGH COMBINATION OF HIS HISTORYCHICAT OF PROMISE A COMPLETE AND OFFINION. SCIENTIANS, SHOWING COMBINATION OF HIS HISTORYCHICAT OF PROMISE A COMPLETE AND OFFINION.
- CONTRACTOR(S) MILL NOT WILLPULY INSTALL THE SYSTEM AS DESCRIED WHEN IT IS DEMOUS IN THE FIELD THAT UNKNOWN DESTRICTIONS OF CONCE OFFERDINGS. CORST THAT WIDER NOT MADE HOT MADE BURNED THE DISCONCESS. SIDE OFFERDINGS SEED OF OWNERING SHALL BE BRIEDER TO FOR ATTEMPTS OF THE OWNERS SHALL BRIEDERSTED OF RETRIEDARDING CHEROMORS, THE REPRESENDED WITHOUT ASSETTING FALL MISSPONSORULY FIRE MAY MOVE ALL MISSPONSORULY FIRE MAY MOVE ALL MISSPONSORULY FIRE MAY
- INSTALL PRICATION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS.
- 4. THE PRICATION OF THIS STPERTSCAPE IS SUPPLIED WITH RECYCLED WATER.
- ALL BRIGGINGS AND SPRINKLER SYSTEMS SHALL DE COMPANIÈLE WITH PLANTS WHEN THEY ARE FULLY GROWN.
- REGGREON PLANS SHALL CONTENN TO ALL REQUIREMENTS ESTABLISHED BY THE LOCAL WATER PURVEYOR SERVICING THE PROJECT AREA. THE WATER PLANEYOR SHALL HE AS EXEMITIED ON THE PLANS.
- ALL BRIGATION WORK SHALL BE GUARANTED BY THE CONTINUED BY AS TO MATERAL AND MORRAMOSHIP FOR A PERROD OF ONE YEAR, PULLOWISC THE DATE OF FINAL ACCIPIENCE OF THE MORR. ANY OFFECTIVE MATERIAL, MESSING (DURHOH) MONOR PREJALIZATION(S) OR POOR MORRAMOSHIP SHALL BE REPLACED OR COMPRICED BY THE REGISTER CONTRACTOR AT NO COST TO THE COMMITTION.
- THIS CESION IS DAGRAMMATIC, ALL PIPING, WALYES, ECLEPIENT, FTC., SHOWN MITHIN PAVED AREAS IS FUR DESCRI CLARETCATION ONLY AND SHALL, BE INSTILLED WITHIN THE PLANTIMA JARGE IN A MANNER SO AS TO COMPETEN WITH THE DETAILS. COCCUT ALL PROVISION HERGS A NAMIAMA OF 6° TO A MANDROU OF 12° FROM THE EDGE OF CURIS, WALS, AND/OR OTHER HARDSCAPE AREAS, UNLESS OTHERMISE MOTED.
- THE COMPACTUR SHALL WAS FIGUR ANAISMONTS TO SPIRANCER AND PIPE LOCATIONS SO AS TO ANDE CONDUCTS WITH HITTINES, (THE INFORMATIS, TRANSPORATES, CTC.) AND THE LOCATIONS TO PROMICE PROPER HITEOROMIC CONSTRUCT HE CONTROLL WAS TO THE CONTROLL OF THE CONTROLL O
- 10. THE FEMAL AND EXACT POSTICIANG OF THE POINT OF EXAMECTION, AUTOMATIC CONTROLLER, STRAINER SHALL BE APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
- MAINLINE FEEDER BETWEEN POINT OF CONNECTION, METER AND BACKFLOW PREVENTER TO BE OF MATERIAL AS REQUIRED BY CURRENT MATER DISTRICT.
- 12. 120-YOUT ELECTRICAL POWER OUTLET STALL BE PROVIDED BY AN ELECTRICAN. THE CONTROLLER SAME, MAKE THE FINAL HOOK-UP FROM THE BLECTRICAL COUNTED TO THE AUTOMATIC CONTROLLER.
- 13. ALL WIRE FROM CONTROLLER TO ELECTRIC CONTROL VALVES SHALL BE COPPER UF \$14 ORECT RUMAL, USE BLACK FOR PULT, WHITE FOR DOMAIN. COMMON WIRE SHALL BE 12 CAUGE WIPE. INSTALL IN COMMON TRENCH HERSHALL WILLIAM DIESENSE WIFE FORSIER.
- BE CONTRACTOR SHALL STURI OUT A MIRBRIM OF 4 (TOUR) EXTRA SPARE MALVE WHITS (UNLESS OPERATION CONTRACTOR OF MIRBRIAN PLANS) AND 1 (ONL) COMMON WAY FIXIN MERCATON CONTROLLER(S) TO EACH DOT OWNERS HOUR FEAR STARE MARS SHALL OF STURBED UNLESS TO FAST FARTHEST VALVE BOX AT EACH DISO OF MANUME RUM. SEE PLAN HOTTES FOR THY—MARK SYSTEM(S)
- 15. THE CONTRACTOR SHALL FILISH AND ADJUST ALL SPRINGLER HEADS FOR OPINION PERFORMANCE AND TO PREMAIN OWNERPHAY OWN SHEWARS, WALLS/FININGS, DLETING/CARIE, BOWS, ETC. AS MACH AS PLESSIED, INC. SHALL PADLIER FROFFLING. THE ROOM COMPINED, AT EACH VALVE TO ORDINAL THE OFFINIAN OPINISTAL PROBLEM. THE OFFINIAN PRESSURE FOR EACH SYSTEM AND INSTALLATION OF PRISSURE COMPRESSIONS SCREENS WHERE REQUIRED.
- 16. THE STRATCHY CONTROLTED SHALL BE CALLY ESCHARIDE FOR DISHAMEN ALL SEQUEND DAY. RECESSORY TO HAVE HIS DISHAGORYON CONTROLLER PROBLEM AND INFO-MOST OF A BLLLY OFFERIDADE, AND AUTOMATIC PROBLEM CONTROLLER STRAIL PROBLEM FOR THE ACCESSANCE OF THE PROBLEM FOR AUTOMATIC PROBLEM FOR THE PROBLEM FOR TH
- 17. THE INSERTION CONTRACTOR SHALL COORDINATE BUSCATION WORK WITH THE GENERAL CONTRACTOR AND GHERR SUB-CONTRACTORS FOR LOCADION OF TIPE SLEEKS THROWER WALK, INDIER PARKIN, STRUCTURES, ETC. ALL PHYSIC AND SLEEMING LINER PROVID PARKS STRUCTURE DESIGN OF PARKIN CONTRACTORS.
- 18. PROVIDE MINIMA 18" COVER OVER ALL PRESSURE MAIN UNE PIPMO, AND 12" (MINIMA) OVER ALL NON-PRESSURE LATERAL UNE PIPMO. ALL PRE UNDER PARTO AREAS 5: TO BE INSTALLED IN A PICC SCI. 40 SELEN, MIPL MET MAY COVER. SELEN EQUATIONS OF BE SERVINO UN PLANS. CHY OPPIN REZARRADINES FOR 1995 SUPPORTEDE ALL THE ARROY EMBRISHING.
- 13. IN ADDITION TO THE SLEEVES STIMME ON THE PLAN, THE INSCALED CONTRACTOR STALL BE INSPONSIBLE FOR THE INSTILLATION OF INDIVIDUAL SLEEVES OF SUFFICIENT SZE UNDER ALL PIAKOL AREAS PRODE TO PASAGE UPON APPONAL OF THE CONDECT REPORTATION OF RESIDENCE PROPERTY OF PROPERTY SCIENCE, PRINCI OR SLEEVING SHALL BE INSTILLED BOUND EXISTING PARMIC, UNLESS OTHERMISC MOTED ON THE PLANS.
- 20. CONTRACTOR SMALL INDITE THE CITY/COUNTY OR LANGSCAPE ARCHITECT A MINIMUM OF 72. HOURS PROOR TO COMMENCEMENT OF MORK TO COORDINATE PROJECT ORSERVATION SCHEDULES.
- 2). THE CONTRACTOR SHALL INSTALL ANTI-DRAIN VALVES (CHECK VALVES) AS REQUIRED TO PREVENT LOW-HEAD DRAINAGE.
- 22. THE IRRIGATION SIGIBAL IS OCSIGNED (ACCED ON THE OPERATING PRESSURE AND THE MADMAN FROM COMMON HOLIZATE ON THE PRANCE AT THE PRINCE OF DIMERCIENCE. THE REGISTRAN CONFINCETOR SIMIL. VERBEY PRESSURE AND TOWN LESSES REQUESTED RECOVERATION AND REPORT TO THE COMMENT AND PRESENCE THAT WOULD REQUIRE CHANGES TO THE SYSTEM'S DESIGN FROM TO CONCRITIONISM.
- 73. IRREGATION CONTRACTOR SHALL SANCUT, REMOVE, AND REPLACE EXISTING PAYONISH AND ANY COMPACTED SIRI-GRADE FOR ALL TRIDICIONES IN PAYON AREAS. REPLACEMENT SHALL BE PER LOCAL REPLIENCE CODICS.
- 24. CONTRACTOR SHALL HE RESPONSIBLE FOR VISITING THE SITE AND VERSITING ACTUAL LOCATION AND REQUIREMENTS FOR ALL REGISTION SYSTEMS AND EQUIPMENT TO BE MOURIED UNDER THIS CONTRACT.
- 23. ALL PYC PPE AND FITTINGS SHALL BE 1120/1220 MORMAL HUPACT, SOLVENT—WELD SCHEDULE 40 ON THE PRESSURE (MARKING) SIDE AND SCHEDULE 40 ON THE IXIN—PHYSSERE (LATERAL) SIDE OF THE REMOTE CONTROL WAYN'S.
- 28. CONTRACTOR WAST PROVINE CONTROLLER CHARTS WITH BALM WAVE SECTION COLDERD. CHARTS ARE TO BE HERMETICALLY SOULD BETWEEN THO PLASTIC (20 MLS) SHEETS, OWNERFOR SHALL PROVINE AS—BULL INSURINES (APPRIADE INT THE CHIT'S PLYTRESHALINE) SECOND CONTROLLER CHARTS ARE THEORISMS.

	EQUIPMENT LEGEND		
SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL,
M	WATER METER REJER TO CIVIL PLANS	PEP CML	PEP MAN
$\triangle$	CALSTREE IMPAINON CONTROLLER — STE POC INFORMATION DON FOR MODEL NUMBER. INSTALLATION CONTROLLER INSTALLATION MUST BE PREPARED IN CASSINGS REPRESENTATIVE CONTROLLER MATERIALATION. THE PRINCIPACE AND MATERIALATION INFORMATION.	PER PLAN	SHEET 12 DET# 1
Œ	YARDNEY SB-2 BASNIT STRANGE TO BE RESIALLED WITH STANLESS STEEL ENCICEBRE FER DETAIL COLOR: PURGLE WITH RECYCLED WATER EXMINISATION.	2*	SHEET 17 DET# 2
e	Booster Purp to be installed per manufacturer standard, see specification for wooel number.	-	SHEET L-2
9	WILDRES SOOKE PRESSURE RELUCING VALVE TO BE INSTALLED PURPLE VALVE BOX PER DETAIL	1.5	SHEET 1-2 DET# 3
Θ	BURNNER-SUPERIOR 3200-RW 2" NORMALLY CLOSED BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION ALD NO MINIMUM FLOW FEATURE, PURPLE CROSS HANDLE FOR RECLAMED WATER USE SIZE PER PLAN.	1.5*	SHEET L-2 DET# 4
0	CALSPIESE FLOW SONSOR-SEE POC BOX INFORMATION FOR MODEL NUMBER (INCLIDED WITH CONTROLLER CALLOUT)	PER PLAN	SHEET L-2 DET# 5
÷	HELSON 7645 QUICK COUPLER WITH NOWE THREND, LOCKING (PURPLE) CMP.	1*	SHEET L-2 DES# 1
•	REMOTE CONTROL VALVE FOR DRIP SYSTEMS WITH FLOW RANDE OF 0.2-5.0 OPM. RANDHIRD EFRO'D SENES BRASS VALVE WITH GROWN-075, PSI-M40Y-075 PRESSURE REDULATOR, AND BALL VALVE.	PICR PIAN	SHEXY (-2 OET# 7
9	REMOTE CONTROL VALVE RAINSING EFB-CP-PRS-C BRASS VALVE, TO BE INSTALLED PER DETAIL.	PER PLAN	SHEET L-2 DEI# 8
м	Hamiltind 890) Birkes Bari, wave placed in jumbo rectangular wave Birk $\sim$ line SZE.	LINE SIZE	SHEET E-2
m	IRRICATION VALVE MIRES PULL BOX INSIDE ROUND 10" VALVE BOX	PEF PLAN	-
®>	IRREMINION MARKERS PIPE PVC SON 40 TO BE BERRED 18" MINIMUM RECYCLED WATER PURPLE PIPE MAINLINE	PER PLAN	SHEET L-2 PET# 3/4
	BROCKIEGO LATERAL LINE: PVC SCHEDULE 40-NP RECYCLED WATER PURPLE PIPE LATERAL LINE	PER PLAN	SHEET L-2
	OPH X-FLEX PRESSURE RATED PMC, (XF100).	PER PLAN	SHEET L-2 DET/ 7 SHEET L-2 DCM 3/-
	IRRICATION MAINLINE, LATERAL LATE, WIRE SLEEVE PLIPPLE PVC 36" MIN. COVER	SEE CHART	SHEET (-1
NOS SHOWN	UF BATED CONTROL WAYE, 12 CA COMMON, 14 CA PAUL (CREEK BURNED)	14/12 GA	-

- PIPILO AND VALVES ARE SHOWN IN INDESCAPE, FOR CLAMITY ONLY. PLANS ARE ESSENTIALLY OUGRAMMATIC.
   PINAL LOCATION OF REJUTE CONFIDEL VALVES TO BE APPROVED BY LANGEOUPE ANOTHER MAD OF PARIS AND MANTEMAYE SUPERMEDICENT AND TO BE CONDINATED WITH LANGEOUPE CONTRACTION PRORE TO MANUEL TESSICS.

#### W.Y.W.D. GENERAL IRRIGATION NOTES:

- ALL VALVE BOXES SHALL BE PURPLE PLASTIC MITH THE MORDS "REDICLED MATER" CAST INTO THE PLASTIC LID.
- 2. ALL CONTROL VALVES MUST INVE A PLASTIC LABEL ATTACHED WITH A MICON THE WRAP WITH THE WORDS TRECTICLED WATER DO NOT ORDRO TO ENGLISH AND STANISH.
- ALL SOUNDED HE WOODS ENTERED WITH CO FOR GROWN DESCRIPTION AND SOUNDED HE WOODS AND SOUNDED HE WOULD HAVE A SELF-ADMISSION AND A SELF-ADMISSION A SELF-ADMISSION AND A SELF-ADMIS

- 7. OLDER COMPILES ARE ALLOHOLD BUT MADE BY MALE FOR RECEIPED WATER STEELEN, COUNT COMPILES ARE ALLOH RANGED IN PURISE PLANTS STEELEN, COUNT COMPILES ARE ALLOH RANGED IN PURISE PLANTS BY MALE STEELEN STEELEN, COUNTY SHALL BE ALLOHD US MAY RECEIPED WATER ACT STEELEN STEELEN, COUNTY AND THE STEELEN STEELEN AND RECEIPED WATER AND THE STEELEN STEELEN AND THE STEELEN STEELEN AND THE STEELEN AND THE STEELEN AND THE STEELEN STEELEN AND THE STEELEN STEELEN AND THE STEELEN STEELEN AND THE STEELEN ST

RECORD CLASSACE RETWEN POTABLE AND RECYCLED MATER LINES & 10 FEET MONOCHALLY AND 1 JUST VERTICALLY (MISH POTABLE WATER LINE WATER LINE WATER LINE WATER LINE WATER LINE). THE SECRET MOSE OF A WATER LINE WATER LINES WATER LINES

NOTIFY BOR YMMOLICIE AT WALKET VALLEY WATER DISTRICT AT (909) 595-1250 FOR HIS DISTRIBUTION AND NOTICEONES: 1) INSPECT MY HIGHT TO BUCKFILL 2) WHILE PRESSURE TESTS AND 3) ABOVE-ORDINAD INSPECTION - 2 DAY MOTHER AND A

LA. COUNTY MUST ALSO DUAL PRESSURE OR DYE TEST THE SYSTEM BEFORE ALLOWING PERMANENT CONNECTION.

NOREY BOR YAMAGUCHE (W.V.W.D.) AND DAN BACAN (L.A. COURNY) AT (828) 430—5730, FOR FINAL REPECTIONS  $\sim$  2 DAY NOTIFICATION.

SLEEVING CHART

1/2" PPE 3/4" PPE

1" P.P

2 1/2"-3" PPE 4" PPE 6" PPE

PYC SCH.40
1 1/4" SEEVE 1-4 WIRES
1 1/2" SEEVE 5-10 WIRES
PYC CLASS 315
2" SLEEVE 11-20 WIRES

PVC CLASS 315
2" SLEEVE 11-20 WIRES
2 1/2" SLEEVE 21-30 WIRES
3" SLEEVE 31-40 WIRES
4" SLEEVE 41-00 WIRES

41-00 MRS
PVC CLASS 200
8" SLEWE 61-89 MRS
8" SLEEVE 100+ MRS
10" SLEEVE N/A

	DRIP ZONE LEGEND	
SYMBOL	MANUFACTURER/MODEL #	DETAIL
	AETAPIA TECHURE MOXIR-ING DRIPLINE TUROW-RWT-1800, TO BE RURED 2" SELOW THISH CRAFE, 16" DATER SPACING, 18" LATERIA, SPACING AND 0.77 GPH EMITTER FLOW HATE, MON POTABLE (*78412).	SHEET L-2.7 DET# 5/6 SHEET L-2.8 DET# 1/2
Ø	FLUSH WALME ASSEMBLY PANISHED MORTPEAP (FLUSH CAP-BLACK) & MORT COMP (COUPLING) — SET ORTHOL	SHEET L-2.7 DET# 4
9	SEEF ROOT TREE BROOMFON STOTEM RANBROD RIVS-FORNE-P-8-1401 MTML RULL IN CHEEK VALVE AND 0.25 CEM BURBLEP, INSTALL 2 BRS FER THEE, INSTALL RANS-EAVIE-P LODGING PURPLE GRANT FER RECOCCULD WAREE BROOMFOCKSOM.	SHUEY 1-2.7 DCT 2

## POC# 1 -- CONTROLLER#A CITY MAINTAINED RECYCLED WATER SERVICE

THE METERS OF THE SECRET OF TH

IRRIGATION CONTROLLER
COMPOLLED \$4: CALSDRE CSJ-18-51/CSJ-19/18-Y4GJ-7/441-P901/URRXCOOLIG/TH18/
TO BE WEINLID HERE STRUCKES STEEL TOP MOUNT PROBEN. CEMPRACTOR TO PROMIE HE/MALARON
APPRION, LETTER PROED ACCESSED.

#### IRRIGATION AUDIT SCHEDULE:

RESCAIRIN AUDIT SIALL SE COMMUNITED BY A CENTREED BROCAIRIN AUDITOR AND PRIMADE CEPIES THE SEADINGAT-O-SERMY WALLEY WALLEY WALLEY SERRICE AND THE CITY OF BEALBURIT PRESS TO THAN AND START OF MARKTENANCE.

- IRRICATION AUDIT SHALL BE PERFORMED ONCE THE IRRICATION IPRICATION INSTALLATION TO COMPLETED.
- IRRICATION AUDIT SHALL BE PERFORMED ONCE EVERY 5 YEARS PER THE CITY OF BEAUMONI CONDYTIONS

#### IRRIGATION MAINTENANCE SCHEDULE:

- 1. DESCRIPTION (GENERAL MATURATION (CONTROLLER, WALES, MANIS);
  2. DESCRIPTION (GENERAL MATURATION (CONTROLLER, WALES, MANIS);
  2. DESCRIPTION (GENERAL MATURATION METHY)
  3. DESCRIPTION (GENERAL TRANSPORT AND LITERAL MAT

RECTULED THERE MOTE HOPCOME, SPRANCON MUST BE MUTHOUD AT ALL THES BETWEEN THE CONSTANT PROSSING PURME, AND REDUCED WATER LINES, A MARMAN OF THE DOME (1) FROM PERMEA, SERVANCES MAST DE MONATORD AT ALL THESE EXPENTATION IN POINTEE AND RECYCLED WATER LINES WITH THE RECYCLED WATER LINE RELIGION THE POINTEE AND RECYCLED WATER LINES WITH THE RECYCLED WATER LINE RELIGION THE POINTEE AND RECYCLED WATER LINES WITH THE RECYCLED WATER LINE RELIGION.

ALL CROSSINGS BETWEEN POTABLE AND RECYCLED WATER UNES SHALL BE AS NEAR TO PEPPENDICULAR AS POSSIBLE AND THE REDYCLED WATER LINES SHALL BE SLEEYED A MINIMUM OF EYE (5) FELT ON BOTH SIDES OF THE POTABLE WATER LINE.

STREET CROSSING SLEEVES:

ALL SHOCT CROSSING SLEEN'S INSIDELED PER CML DIGHEDRING FLANS CONTRACTOR TO VERBY EXACT LOCATION IN THE FIELD

#### BARRETT ENGINEERED PUMPS SPECTALINES BY PEMBY AND PENBRAG STATISTICS.

#### PROJECT: GRAND AVE & GOLDEN SPRINGS - Diamond Bar December 12, 2017 SYSTEM DESIGN PARAMETERS

IBGA5-2-3-2: Nam Meat North		35 GPM System Forum Day Bate	58 PSI System Detect Property	2 INCH Prima Princ Suc
29 PSI Marines No ten 2:	South	230 VAC	1 PHASE to	0.Hz Haw or histories
20GA5 - 1 W Tues Month Sonian		35 GPM Inter Condit (OPM)	95 FEET From Total Bud	disn
? HP hop Catepener	3500 RPM Persitted	2 A MPS (iii 230/)		

VALVE BOX NOTE: ALL RECYCLED WATER EDUPMENT MUST BE INSTALLED IN PURPLE VALVE BOXES WITH PURPLE UPS.

VALVE TAG NOTE: ALL RELYCLED WATER BRICATION ETRAPMENT SHALL HAVE PURPLE COLOR ID TACS.

MWELD WATER CONSERVATION STATEMENT: ESE OF MAKES IN THE GRIDATION DESIGN FUND OMBINARY, AND APPLIED THEM FOR THE CETTORIN THE COMBINERY, AND APPLIED THEM FOR THE CETTORIN

-tonson Our HON S. OCH. GOL MANS

LATERAL UNE PIPE SIZE: ALL BRIGARON LATERAL UNES STALL BE 3/4" HINDERM UNLESS OTHERWISE HOTED ON THE PLAN.

WATER CONSERVATION STATEMENT:

IRRIGATION FIELD ADJUSTMENT NOTE:

IRRIGATION EQUIPMENT NOTE:

SLEEVING NOTE:

THE CONTRACTOR SHALL FIELD AGUEST IRREATION
STOTIM MORN MINTOL OBSTRUCTURES (THE HYDRAM,
STOTIM FOR NO STANDE, ETC.) REFERENCE WITH
THE ROBASTON PATTERN, ALL AULISTIANT SHALL RE
HADE AT NO ACCITIONAL COST TO THE OWNER, TYPICAL

THE CONTRACTOR SHALL LOCATE MANLINE AND IRRIGATION EQUIPMENT IN PLANTING AREA, TYPICAL.

THE CONTRACTOR SHALL SLEEVE ALL LATERAL LIME / MANUFE AND VALVE WIRE'S THAT CROSS UNIFER HADDSOFF (SDEWARK, GRIPEMY, ETC.). ALL SLEEVING SWILL BE 2 THEST THE DWEETER OF THE PIPE USED. REFER TO SLEEVING CHARL.

THE RRIGATION PLAN IS DESIGNED USING LOW VOLUME IRRIGATION TO AVAID CHEINSPRAY AND TO INCREASE EFFOCIMENT, ELT, BASTO CONTROLLOR AND RAIN SENSOR ARE GEING USED TO AMORD OVER-WALLERING.

RECYCLED WATER SIGNAGE INSTALL PER W.N.W.D. STANDARDS, LOCATION WILE) BE: APPRIMED BY WATER DISTRICT AND CITY REPRESENTATION



PROJECT NO.

CITY OF DIAMOND BAR **PRIGATION LEGEND FOR** 

GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

L-2.0

SHEET 124 OF 139

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GEORID BY DATE	CHECKED BY DATE	CHECKED BY DATE	Ŀ

DAVID EVANS

LAMESCAPT, AMERICES NO. 3007 DATE EXP. 09/

CONTRACTOR SOUTH ANT DASED ON THE CAUTORNIA VEITTS AL DATTAL BASED ON NORTH AMERICAN FREWARDS COUNTY BETWEEN AT LORDS MOINS

APPROVED CITY EXPONEER N.C.E. GATE

REMEMBER



## LOS ANGELES COUNTY + DEPARTMENT OF PUBLIC HEALTH



CROSS CONNECTIONS AND WATER POLLUTION CONTROL PROGRAM
500 Community Drive, Bullyin Park, CA 81756-1423
500 Community Drive, Bullyin Park, CA 81756-1423

#### GUIDELINES FOR PIPELINE CONSTRUCTION AND INSTALLATION -FOR THE SAFE USE OF RECYCLED / RECLAIMED WASTEWATER

PURPOSE: As a result of increasing availability of recycled i retailmed wastewaste and an increasion need to the transmission and use thereof, the Deputment of Fubic. The purpose of th

BACKGROUND: A recent increase in the number of inquiries and interest deplayed requiring the saw of inquiried irradianted valids, is the ongoing efforts to conserve the control of the low uniform reviews and beginned for hoppidal redistanted validationals. Respect of reclaims the state may be used for surface integration of the following: food corps; parks and playersumfor shooting under instructed understanging and strettletical contesting of the control of th

#### DEFINITIONS:

Gray Water miners untreated westlevener that has not come into contact with talier waste, atthin size waste, dohnstater waste or similarly contembated sources. Gray water includes water from bestudie, showers, betrook with basins, dother-washers and launity tube.

Non-Potable Water meand water which is until for human or entries consumption that to contaminants that exceed the current permissible Maximum Contaminant Level

Petable Webs\* meson water which is it for consumption by humans and other animals, the period of th

Recycled / Recialmed Water means non-possible water that meats as as a result of stammers, meats feature recovered for an intended uses. The level of the intermet and enably of the nethernel recycled water shall be expressed by the Authority Heaving Justicians, Recialmed / recycled water systems chail nace no connection to any possible water systems chail nace no connection to any possible water systems chail nace no connection to service the connection th

Revised 09:22:09

DEDED BY

PERMIT

40' 40

The vac of recycles? I redained weatowater for impation purposes shall arroinned exposure of the wastewater grown to divising brumans and principable interiors, and an exposure and the exposure and the programs interiors because in exposure and the exposure and the program interiors bruman because in the exposure and the exposu

#### BACKFLOW PROTECTION

- There shall be no interconnection between a potable water system and a recycled / reclaimed water system within the user's premises.
- A eye or pressure lest shalf be utilized to confirm the physical separation of a recycled wasteroiter system and a potable water system. Testing shalt be performed in conjunction with the Water Purveyor and this Department and conducted before the irreduction of recycled wasterwater.
- In a recycled / reclaimed wastewater distribution system, a backflow prevention device may be required at the recycled wastewater meter or at specific on-sits locations where said use could degrade the quality of the recycled wastewater



RECYCLED / RECLAIMED WASTEWATER SYSTEMS SHALL BE CONSTRUCTED IN COMPLIANCE WITH APPLICABLE POTABLE WATER SYSTEM CONSTRUCTION STANDARDS AS WELL AS THOSE SPECIFIED IN THE PURPLE BOOK: CALIFORMA HEALTH LAWS BELATED TO BECYCLED WATER. (CALIFORMA HEALTH LAWS SHELATED TO BECYCLED WATER. (CALIFORMA HEALTH LAWS SALEATED TO GOOD OF PREGNATIONS) AND THE LOS ANGELES COUNTY CODE (LAGC), TITLE 28 – PLUMBING, APPENDIX J.

#### PRELIMINARY REQUIREMENTS

- Plans and specifications for recycled / reclaimed wastewater distribution systems, as well as the use and operation of such systems shall be submitted to the Department for review and epotoval prior to construction or implementation.
- Prior to commercing construction, the Contractor shall contact the Department to schedule an inspection of the proposed on-site recycled / reclaimed and polarite water work.
- Upon completion of construction, no excavation or open trench may be backfilled without first securing the Department approval. Any seems hack filled without prior approval will be required to be exposed and corrected as necessary.
- Only a Department approved temporary water connection. In a potable water supply via a deficiated, approved, restored-pressure-principle sectifice prevention device shall be permitted to be utilized for the purpose of flushing pressure leading, constitution, tandscape use of the final cross-connection issuing.

#### SEPARATION REQUIREMENTS

<u>Parallel Combination</u>: A horizontal separation of at wast ten feet (107) shall be required between pressurped, buried, recycled if reclaimed and potode water piping led distance to be measured from blooking outside disember.

BENCHMARK

PROVINCE SENTENCE OF PERSONS WORKS

WASHINGTON STATES STATES

- <u>Commobiler Constitucion</u>, Buried soluble water pipes creating over pressurered recipied i recibined water pages shall be take not less that heave harbes (127) <u>places</u> the reclaimed water place. Recibined vater pipes but in the above bench or creating-over building sever or dratingle place place for installed in compliance with the LMCS 1923. Plantings, Sections 6003, and recipied.
- Unused or Apandoned Potable Wister Linux: Those lines are to be severed as close to water mains as practical, capped, and a ten foot (107) section of attendoned line removed and comested under direct supervision by the Department.
- Existing On-site Fraing: Maximum deparation of recycled / sectained wastewater lines and potable water lines shall be maintained upon system additions or

#### PPELINE MATERIALS AND IDENTIFICATION

All recycled i reclaimed wastewater lines (pressure i non-pressure), valve boxes, hydravit and apputamenous shall be shrellled to clearly distinguish between recycled i reclaimed wastewater, non-potable and potable water systems (as specified in LACC — Title 28, Plumbing, Appendix J).

- Blacchia (Brotkinet Virelevelue: All bures: insyches, wostewoler systems; pressure / non-petitively) that follow pupils pice with black appression learning pressure / non-petitively that follow pupils pice with black appetition to the pice. For least appetition, the son of overfround statisting on them and not petitively appetitively of the pice. For least appetition, the son of overfround statisting on them and no petitively appetitively appe
- <u>Poblable Water</u>: All possible water fines shall be installed in accordance with the
  poblable Water. All possible water fines about potable context grown construction
  standards. All pointed possible water fines about possible context possible shall be possible with the grown state. The possible water fines about possible water fines about possible water fines about plant specially words; "VCTABLE WATER" permanently attended at an into
  active to all valve beness and (or votal, excorate plant per displants in context possible water to all valve beness and (or votal, excorate plant per displants in context possible plant of the plants.

Non-Polable Water. All non-possible origation I inclusibile water know (pressure I non-pressure) that is to service by coldinaria, lettering on trees each 127 intrinsions with classing NOLH-OTABLE WATER. ON ONT CRINCE premarately defined at an foot (107) introducts along all bottomic playing, internal and mains. Meministrates these that descent to all which become and or works, expense playing, information and qualitation and mains. Seministrates the participation of the control o







#### THE SAFE USE OF RECYCLED / RECLAIMED WATER PROTECTS POTABLE WATER

- An On-Sile Water Super-inter shall be appointed, having the responsibility of versight for the prefection of the potable water system (provided for under Tile 17, Saction 1938, and Edithmac Oxide of Regulations). The runn and position of the Ox-Sile Water Super-inter shall be reported to the violet purveyor and in the Oxide Water Super-inter shall be reported to the violet purveyor and in the positions. The Sile Society of the reported to the violet purveyor and in the sub-transition of any planty of the production for the time for the sub-transition of any planty of the production of the sileth raise publisher or conditions with the Cross-Connection Program of the violet purveyor and of this Department.
- Hose tibbs shall not be permitted in any areas of public societs to recipide if reclaimed warmwaiter systems, to prevent insulhational use of recipied windows Could-condition are permitted in the of hase-bibb outside but shall only be connected to troylded in chairmed waterwaiter three. Hose bits may be permitted in areas that permitted and the country of the country of the country is considered in a sea that permitted and the country of the country of the country of the country of the WATER DO NOT DRINC' to English.



May 29, 2018

CITY OF DIAMOND BAR FRIGATION LEGEND FOR GRAND AVE/GOLDEN SPRINGS DR

DEPARTMENT OF PUBLIC WORKS

PROJECT NO.

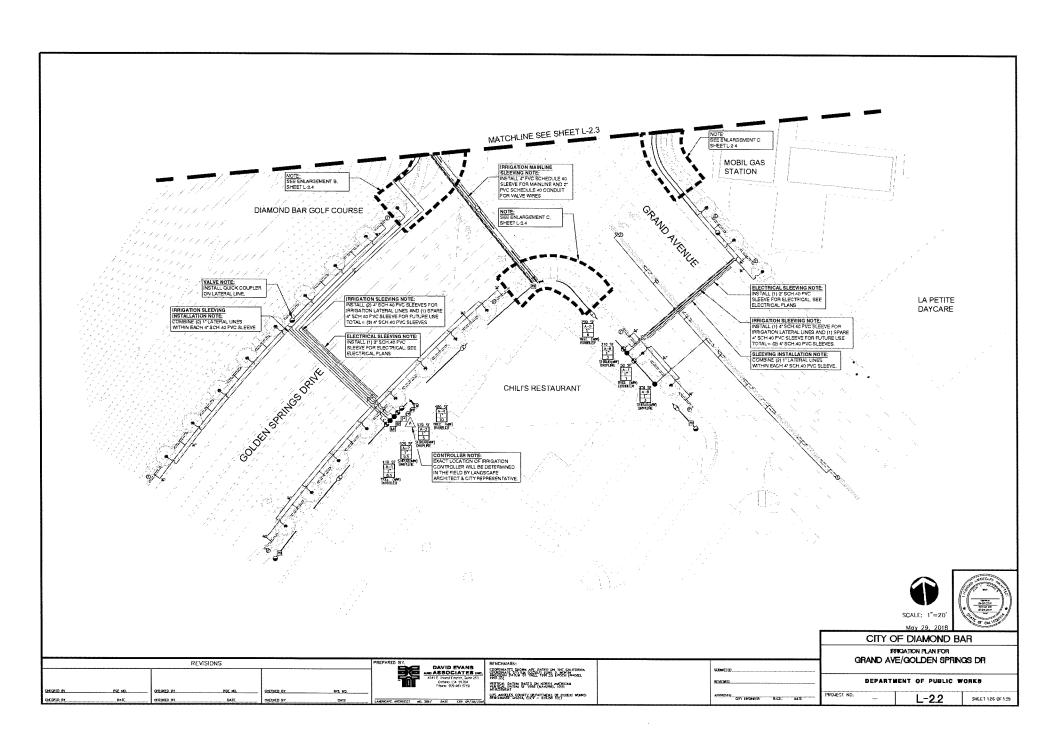
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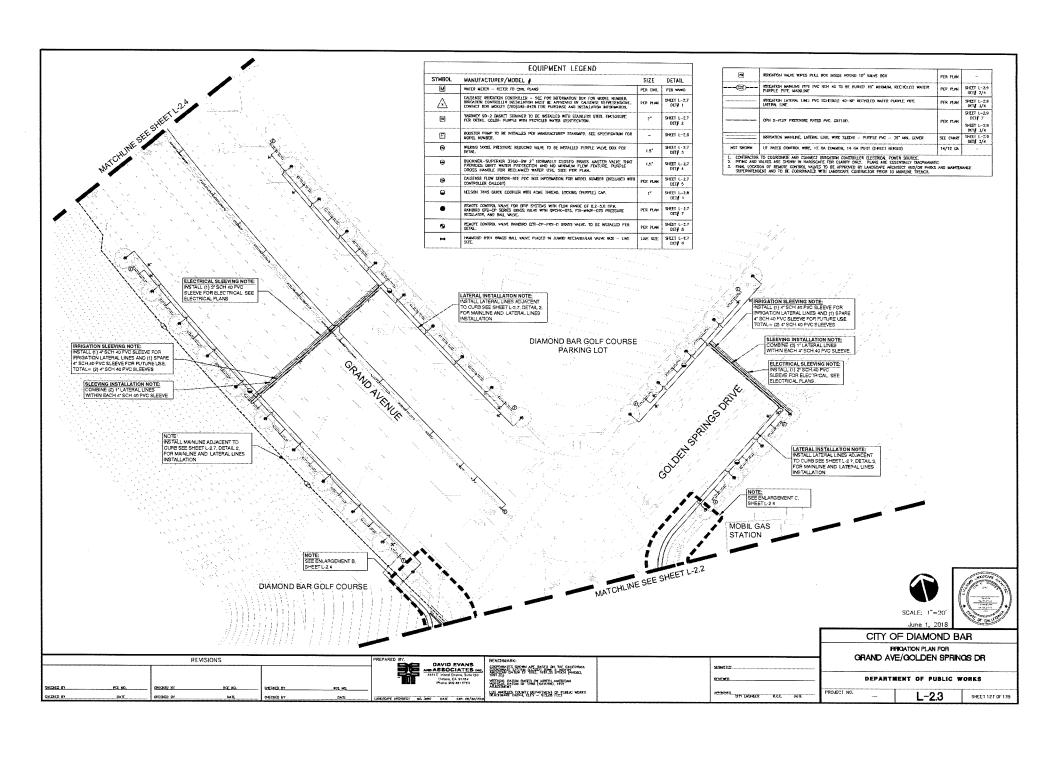
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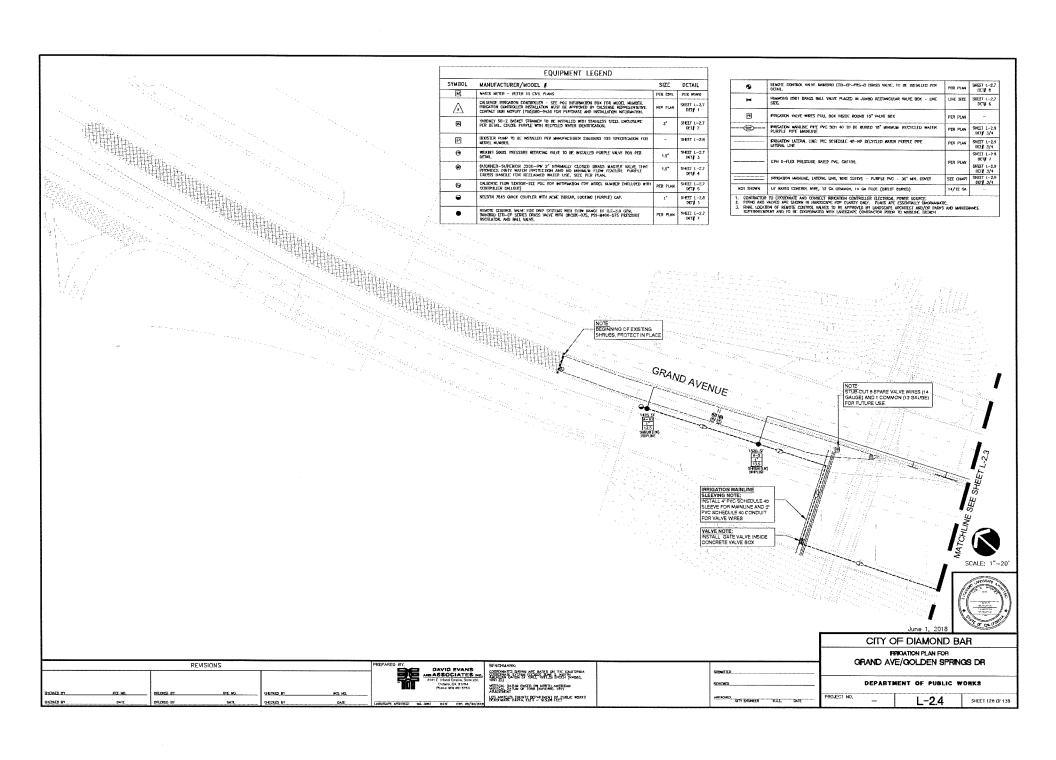
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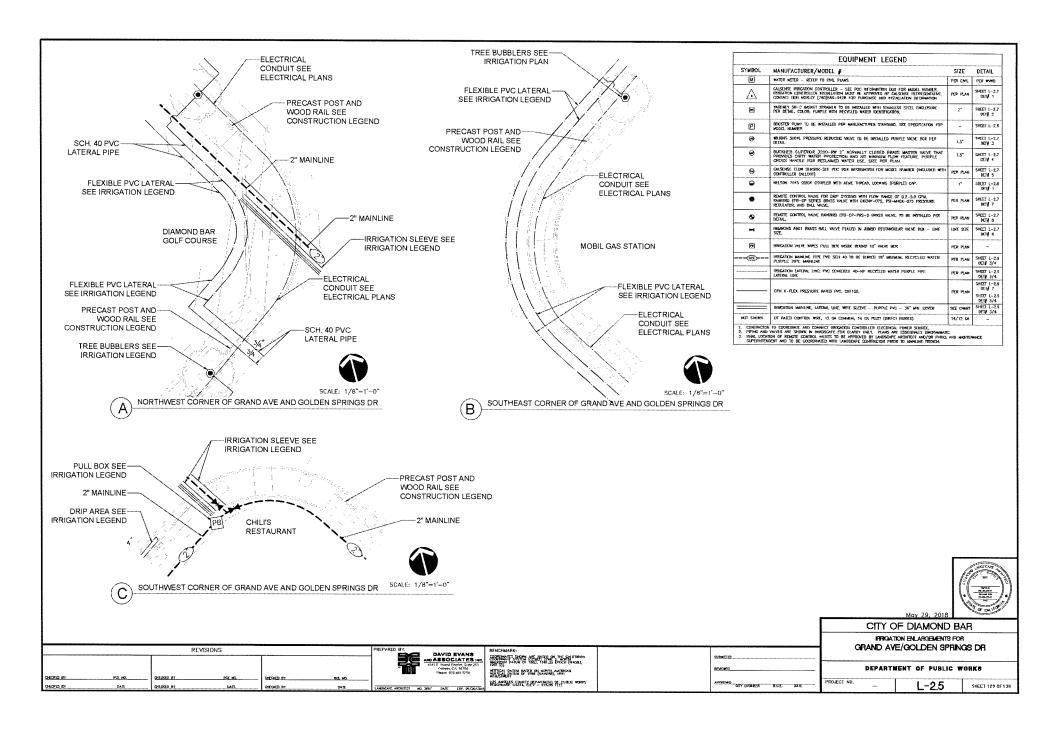
SHEET 125 OF 139

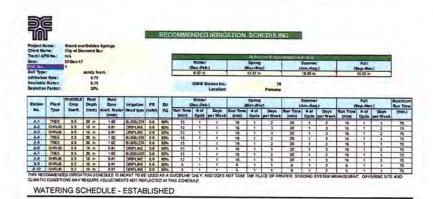
RE	VISIONS			PREPARED BY:	
D-(DKID BY	≪a na	SERVE IN	85° 40.	- 25	DAVID EVANS AND ASSOCIATES 4141 E Wasti Errore, Dale: Orizno, CA 31754 Phone, 909 421 5750
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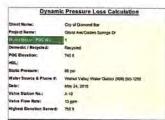


Project No Client Har Track! AP	met:	Grand ave City of Dia NA							NDE			201	nei Gran	Sub-chan	A ROY					
in the	_	07-Dec-17							Witter Dec Fe			Spring MarMa			- mod			Fall		
Soil Type			sandy is					-	ac.e		-	MAIL PART	91	-	in,-te	0)	-	ing.Ab	4	
efitzation Available Depletion	Water		0.15 0.15 30%						CIMIS I	Itudien No.: Location			79 Farmona							
Button	Plens	WUCOLS Cred	Repti.	Ruset Zone	inigation		DU		Winter		Spring (Mar, Hay)		Summer (AurAug.)			Fell (Sep. Nov.)		Maximum Run Time		
Mo.	Type	Coeff	Hechi	Avail. Water (inch)	Heat type	(in/hr)	CA	Run Time (min)		Days per Week	Run Time (min)	If of Cycle	Days per Week	Run Time Imini	F of Cycle	Days per Week	Run Time (min)		Days-	(min.)
A-3	TREE	0.5	× . m.	1.62	BUDDLER	0.0	BON	13	1	2	16	1	3	20	1	0	18	1	4	72
LA.	SHRUB	0.5	ts m	0.81	DRPLNE	0.6	108	13	. 1	4	10	1	- 9	20	- 1	12	16	1	7	75
AQ.	SHPUB	0.5	to m.	0.81	DRIPLINE	0.6	BON	13	1	4	10	1		20	- 1	12	16	1	7	75
A-I	TREE	05	調明	1.0	BUBBLER	9.0		13	1	2	16	1	5	20	-1	. 6	15	1	4	75
A-S	TREE	0.5	M M	162	BLIBBLER			12	1	2	16	-1	3	20	1	6.	15	1	4	75
A-6	SHRUB	0.5	tt a	0.61	DRIPLINE	0.6	80%	12	1	4	16	1	. 1	20	1	12	.10	1	1	75
A-T	TREE	0.5	* "	1.02	BURBLER		80%	13	1	7	16	- 7	- 5	20	1	0	18	1	4	79
B-A	BHFRIB	0.5	t# h	0.81	DRPLAE	0.6	80%	13	1	4	18	-1	5	20	- 1	12	16	1	7	75
Q-A	SHRUB	0.2	te in	0.81	ORPLNE	0.6	E0%	3	. 1	2	. 6	-1	4		_1_	5	6	t	2	71
A-10	SHFAIR.	82	till in	D 81	DRIPLINE	0.6	50%													7%.

WATERING SCHEDULE - PRE-ESTABLISHMENT

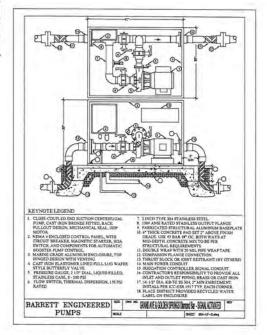
	Califo	ertila Wate	r Efficient Lu	ndscape	Worksheet	_	
Reforesia Evapolismois	aften (TT.)	47.5	Pri	deriTox	Non-Resi	decetal	0.45
Hydracone E/Flurang Description	(FF)	Method*		ETM) (FF.OE)	Landholpe Arra (Sq. Ft.)	ATAT K	Transper Tune Water the STRAP
Regular Landscape	Areas						
Low Use Shrub	(1)	Drip	0.81	0.25	2945	727	21,415
Mod Use Shruis	0.5	Drip	0.81	0.62	1,820	1,123	33.066
Mod Use Tree	0.5	Delp	0.81	0.62	1,230	759	22,360
				Totals	5,005	2,610	76,861
Special Landscape	Areas.	_		-			
				1.		1 0	
				Tetals	0	0	
					E	WU Total	76.861
		- 4	taximum Allov	wed Wat	er Allowance	DMAWA!"	79.449

MWELO - WATER BUDGET



Equipment	Size	Flow	Length / City.	PSI Loss
Water Meter	1 10 in	35 gpm	N/A	2.4 psi
Backflow Preventer			N/A	00
Basket Strainer	2 E	25 gpm	NA	1.0 psl
Maintine (PVC)	2 66	25 gpm	965 t.	8.7 psi
Master Valve	1 1/2 M	35 gpm	84/A	1.0 psi
Flow Meter	1 10 to	35 gpm	N/A	0.0 pai
Gate Valve	2 m	35 gpm	3	1,0 pp
Remote Control Valve	7 8	35 gpm	N/A	5.6 pm
Lateral Line	VARES	VARES	VARES	4.0 pci
Fittings (Estimate 10%)	NA	NIA.	N/A	24 ps
		E	vation Change	4.3 po
	Pres	mer Req. to	Opensio Heads	30,0 pei
		Total Pre	mare Required	60 4 pel
	14	Available Re	Schal Pressure	19.6 pei
			Booster Furns	RPA

PRESSURE LOSS

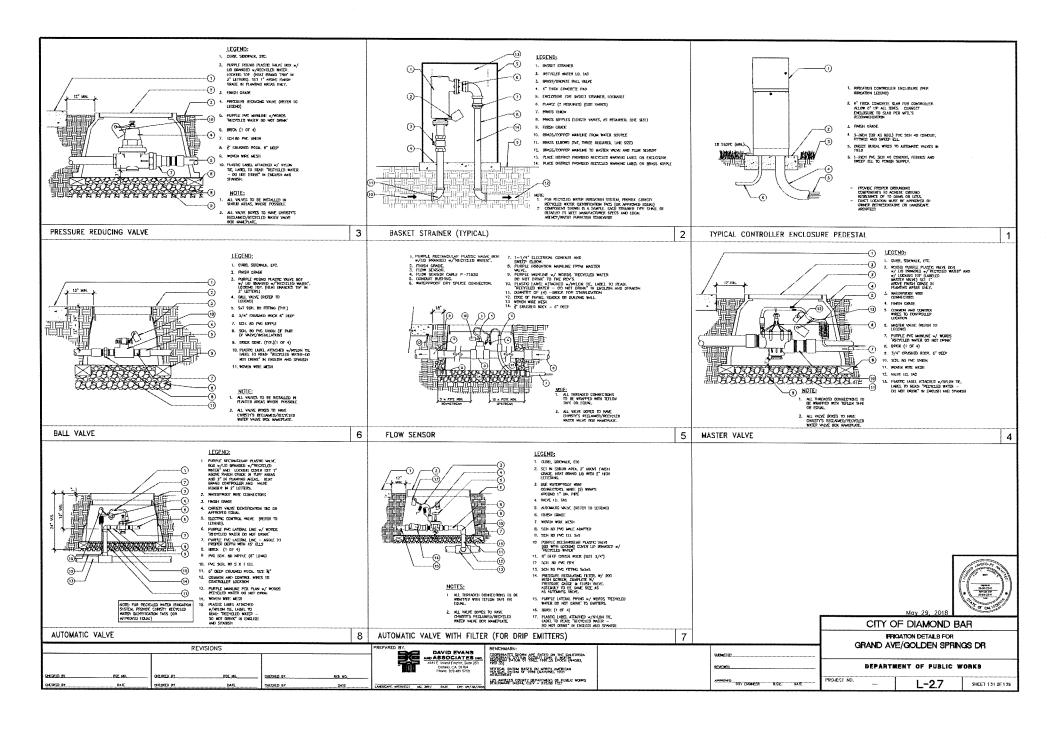


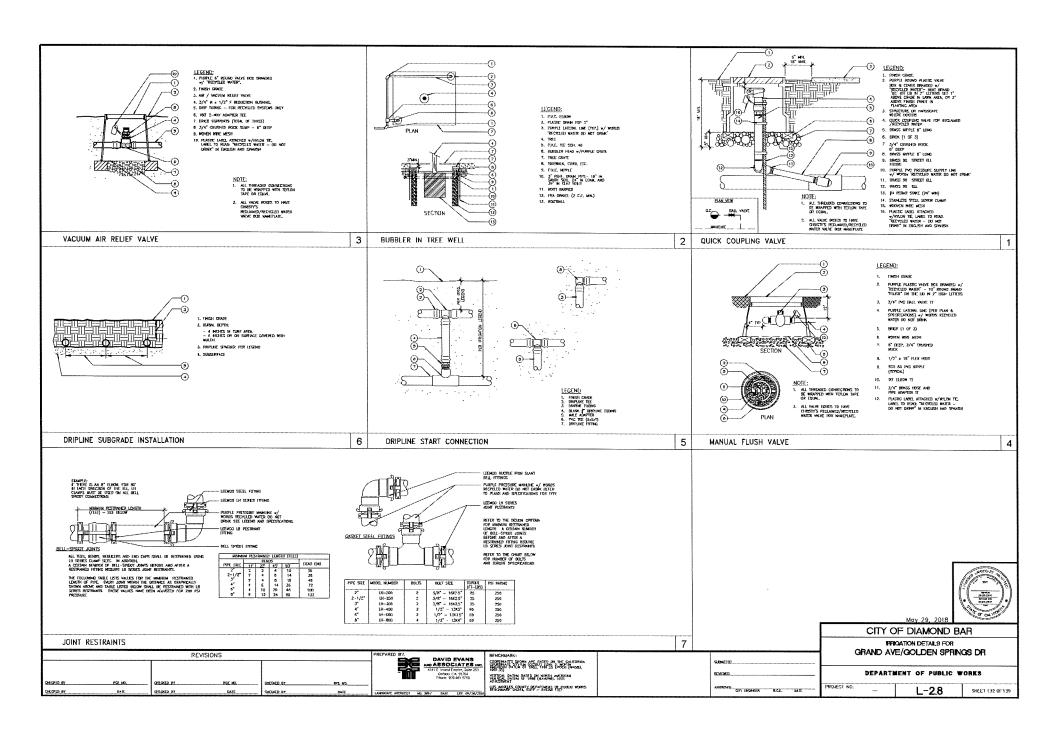
BOOSTER PUMP

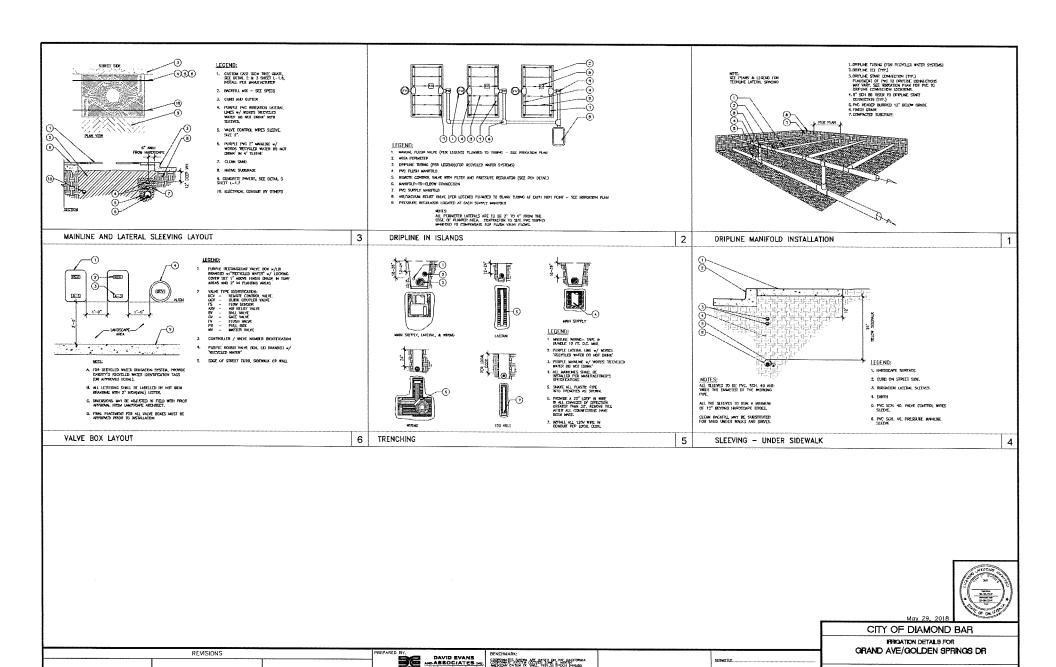


CITY OF DIAMOND BAR

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PROJECT NO.

#### PLANTING NOTES

- CONTRACTOR SHALL MOTHY THE LANDSCAPE ARCHITECT OF SITE CONDITIONS WHICH PREVENT INSTILLATION PER PLANS AND SPECIFICATIONS.
- COMPRETOR SHALL BE UNBLE FOR REMOVING AND REINSTALLING RECORDS EXPENDENT, AND REPLANTING ASSASS WHICH ARE NOT INSTALLED PER PLAIN AND SPECIFICATIONS.
- PRICATION SYSTEM SHALL BE INSTALLED, OPERATING AND APPROVED PRIOR TO INSTALLATION OF PLANT MATERIALS.
- TRIES AND SHRIPS SHALL BE PLANED AFTER CONCEDED PLACIMENT, BUT NOT REPORT PREVAING COMERGE TEST NO. 1 HAS REEN APPROVED. (SEE EFFICIENCEMENT).
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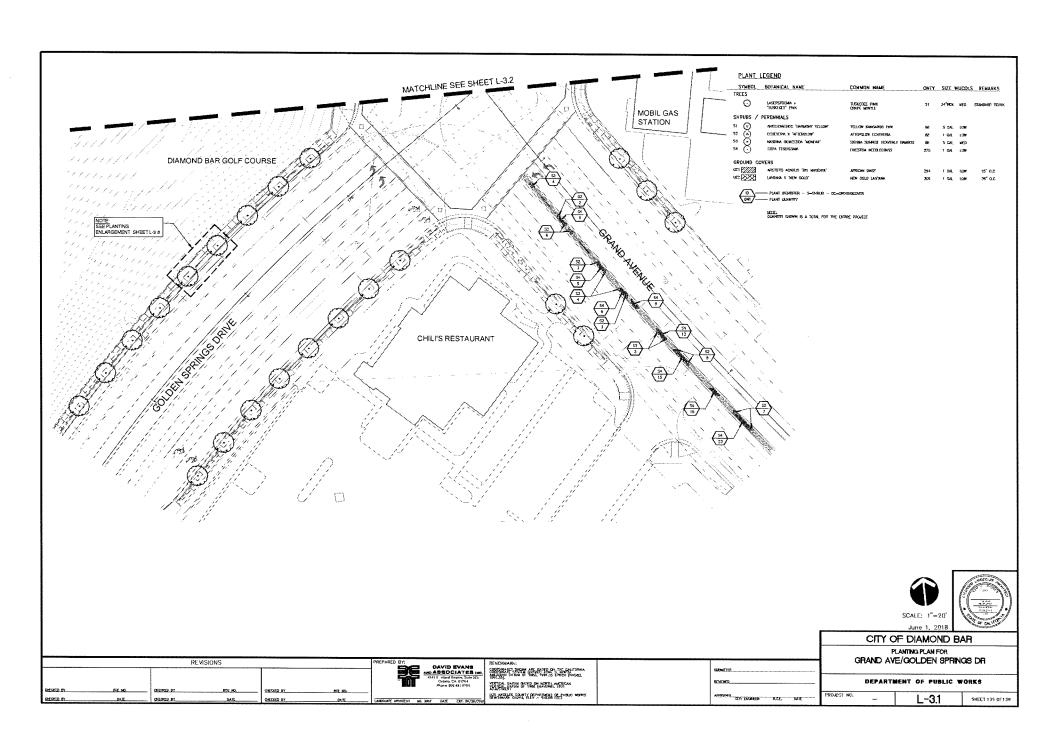
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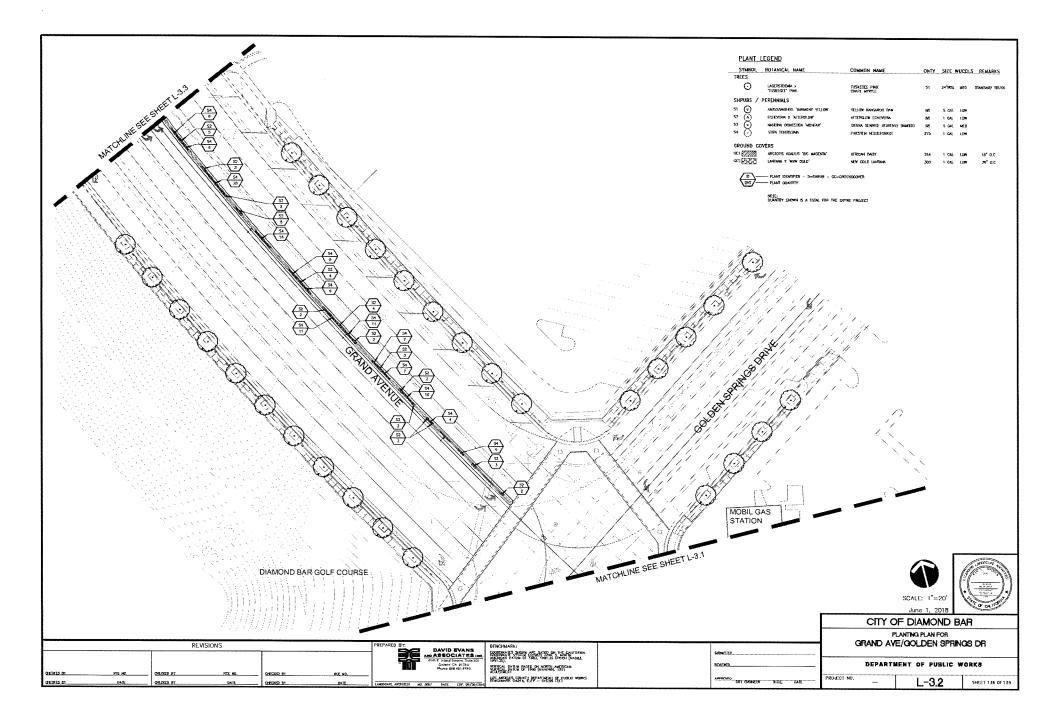
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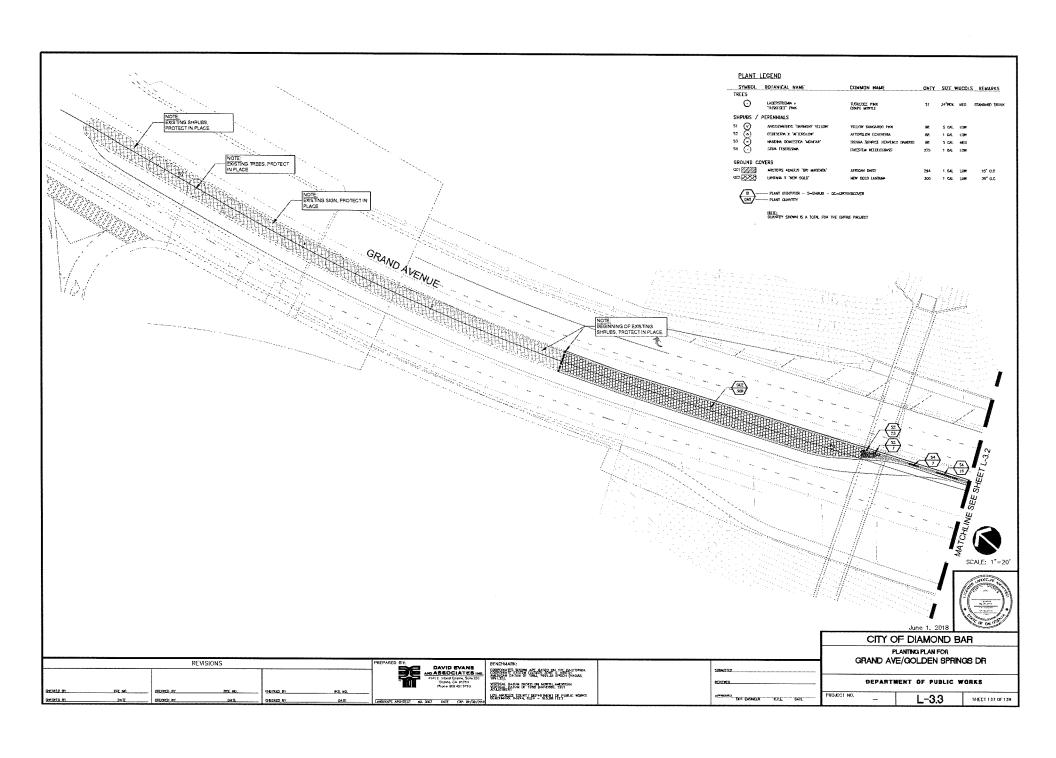
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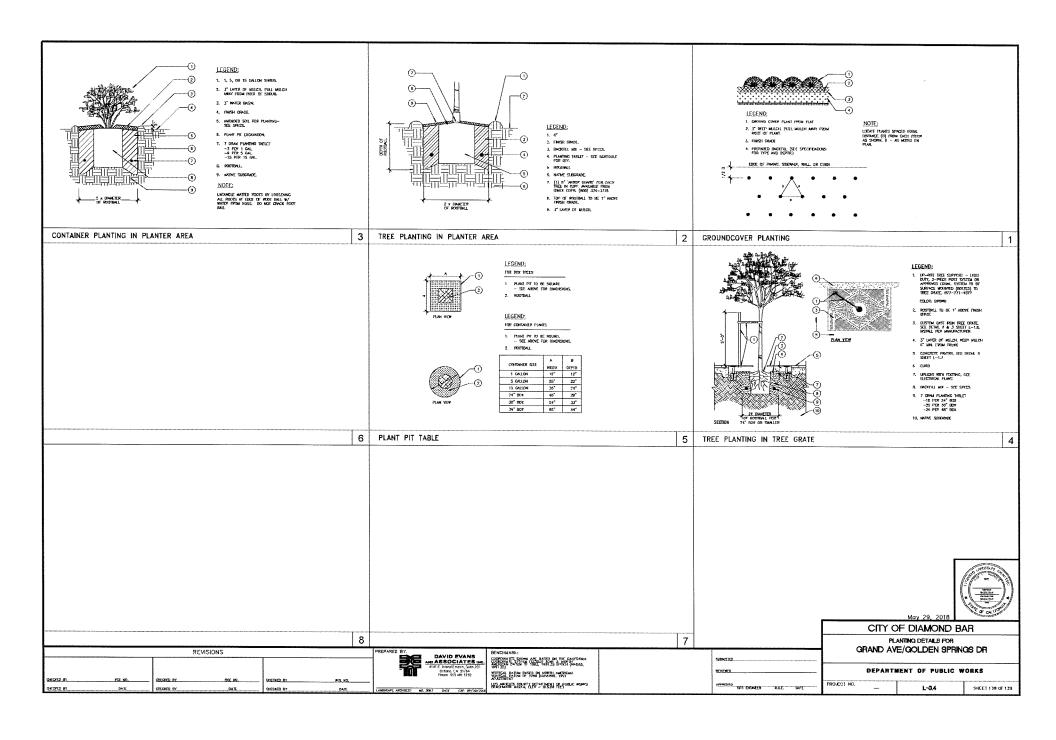


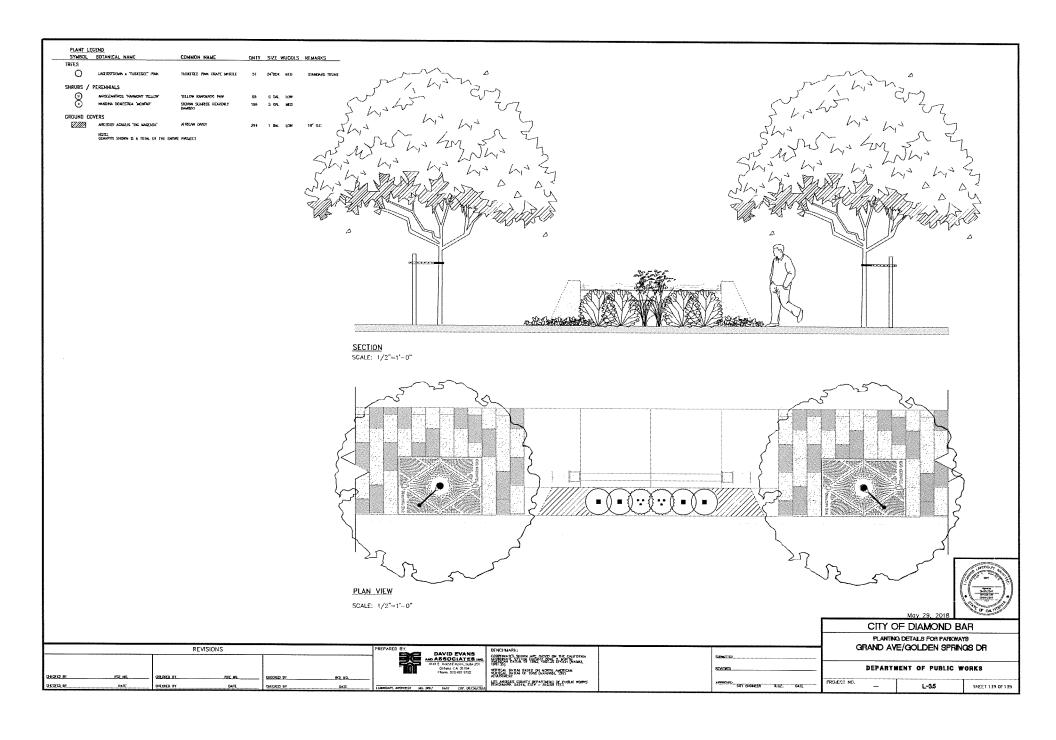
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SUCCESSOR AGENCY
ITEM NO. 5.4



# SUCCESSOR AGENCY TO THE INDUSTRY URBAN - DEVELOPMENT AGENCY

## MEMORANDUM

TO: Honorable Chairman and Members of the Successor Agency to the

Industry Urban-Development Agency Board

Troy Helling, Acting Executive Director FROM:

Joshua Nelson, Contract Agency Engineer, CNC Engineering Joshua Nelson, Contract Agency Engineer, CNC Engineering STAFF:

July 26, 2018 DATE:

Consideration of Amendment No. 4 to the Agreement for Consulting SUBJECT:

Services with Stearns, Conrad and Schmidt, Consulting Engineers, Inc., in the amount of \$80,000.00 for a total Agreement amount not to exceed

\$952,550.00 through December 31, 2020

## Background:

On December 19, 2013, the Successor Agency to the Industry Urban-Development Agency ("Agency") approved an Agreement for Consulting Services with Stearns, Conrad and Schmidt, Consulting Engineers, Inc., ("SCS") to provide landfill engineering services during the mass grading construction phase of the Agency's Industry Business Center East Development. SCS is listed in the Recognized Obligation Payment Schedule ("ROPS") under Line Item No. 221.

On February 24, 2015, the Agency approved Amendment No. 1 a budget increase for continued landfill engineering services during the mass grading construction phase of the Agency's Industry Business Center East development. On January 25, 2016, the Agency approved Amendment No. 2 to amend the Agreement to include installation of the landfill gas ("LFG") control system mechanical and electrical components and to provide continued assistance with engineering, maintenance and monitoring and regulatory compliance issues related to the presence of the landfill during the postconstruction phase.

On December 22, 2016, the Agency approved Amendment No. 3 which included performance source tests on the carbon treatment system, including preparation of a test plan to be submitted to the South Coast Air Quality Management District ("SCAQMD"), as well as oversight during system testing and review of the final report. SCS continues to provide landfill engineering services during the post-construction phase and startup of the gas control system for the Industry Business Center East Development. In addition, they also oversee and document the installation of five (5) landfill gas monitoring wells to document any landfill gas mitigation.

#### Discussion:

Presently, Amendment No. 4 includes a budget increase of \$80,000.00 in order to complete the work through the current ROPS period of 18-19A. This covers the continued work of as-requested engineering, permitting and environmental operation, monitoring and maintenance services through December 31, 2018. In addition, SCS is working with the SCAQMD on permit requirements for monitoring and reporting emissions at the Valley Land Development Landfill. SCS has filed for an exemption with SCAQMD to allow a reduction in site monitoring requirements and compliance costs, without compromising public safety and environmental protection.

As SCAQMD continues to process this permit, SCS continues to perform work complying with all the regulations required. SCS has submitted a proposal for the additional budget and CNC Engineering ("CNC") has reviewed it and finds it to be in order.

Table 1 – Project Summary

Total	<u>\$952,550.00</u>
Amendment No. 4	\$80,000.00
Amendment No. 3	\$31,650.00
Amendment No. 2	\$292,052.00
Amendment No. 1	\$305,830.00
Agreement for Consulting Services	\$243,018.00

## **Fiscal Impact:**

SCS has submitted a request for a total budget increase of \$80,000.00 for the ROPS 18-19A period. CNC has reviewed the proposal and found it to be in order. This amount reflects the approved budget for Line Item 221 in ROPS 18-19.

## Recommendation:

It is recommended that the Successor Agency Board approve Amendment No. 4 to the Agreement for Consulting Services with Stearns, Conrad and Schmidt, Consulting Engineers, Inc.

## Exhibits:

- A. Amendment No. 4 to Agreement for Consulting Services with Stearns, Conrad and Schmidt, Consulting Engineers, Inc., dated July 26, 2018
- B. Budget Increase Request from Stearns, Conrad and Schmidt, Consulting Engineers, Inc., dated July 10, 2018

## **EXHIBIT A**

Amendment No. 4 to Agreement for Consulting Services with Stearns, Conrad and Schmidt, Consulting Engineers, Inc., dated July 26, 2018

[Attached]

# AMENDMENT NO. 4 TO AGREEMENT FOR CONSULTING SERVICES WITH STEARNS, CONRAD AND SCHMIDT, CONSULTING ENGINEERS, INC.

This Amendment No. 4 to the Agreement for Consulting Services ("Agreement"), is made and entered into this 26<sup>th</sup> day of July, 2018, ("Effective Date") by and between the Successor Agency to the Industry Urban-Development Agency, a California municipal corporation ("Agency") and Stearns, Conrad and Schmidt, Consulting Engineers, Inc., dba SCS Engineers, a Virginia corporation ("Consultant"). The City and Consultant are hereinafter collectively referred to as the "Parties."

## **RECITALS**

WHEREAS, on or about December 19, 2013, the Agency, approved an Agreement for Consulting Services with Stearns, Conrad and Schmidt, Consulting Engineers, Inc., to provide landfill engineering and consulting services; and

**WHEREAS**, on or about February 24, 2015, the Agency approved a budget increase, increasing the Agreement compensation by \$305,830.00 for continued landfill engineering services during the mass grading construction phase of the Agency's Industry Business Center East development; and

WHEREAS, on or about January 25, 2016, the Agency approved Amendment No. 2 to amend the Agreement to include installation of the LFG control system mechanical and electrical components and to provide continued assistance with engineering, maintenance and monitoring and regulatory compliance issues related to the presence of the landfill during the post-construction phase; and

**WHEREAS,** on or about December 22, 2016, Amendment No. 3 to the Agreement was entered into and executed between the Agency and Consultant to amend the Scope of Services to include preparation of a test plan to be submitted to SCAQMD and consulting services for the Agency; and

**WHEREAS**, the Parties desire to amend the Agreement to increase the compensation to allow for continued services through the next ROPS period of 18-19A; and

**WHEREAS**, for the reasons set forth herein, the City and Consultant desire to enter into this Amendment No. 4, as set forth below.

## **AMENDMENT**

**NOW, THEREFORE**, in consideration of the mutual covenants, promises and agreements set forth herein, it is agreed the aforesaid Agreement, a copy of which is attached hereto as Exhibit A, and incorporated herein by reference, shall remain in full force and effect except as otherwise hereinafter provided:

## Section 1. Term

This Agreement shall commence on the Effective Date, and shall remain and continue in effect until tasks described herein are completed, but in no event alter than December 31, 2020, unless sooner terminated pursuant to the provisions of this Agreement.

## Section 4. <u>Compensation</u>

The dollar figure of \$872,550.00 shall be amended, in all instances, to read \$952,550.00.

IN WITNESS WHEREOF, the Parties have executed this Amendment No. 4 to the Agreement as of the Effective Date.

"AGENCY" SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY	"CONSULTANT" STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
By: Mark D. Radecki, Chairman	By: Joseph J. Miller, P.E., Vice President
Attest:	
By: Diane M. Schlichting, Agency Secretary	
APPROVED AS TO FORM	
By:	

## **EXHIBIT A TO AMENDMENT NO. 4:**

AGREEMENT FOR CONSULTING SERVICES WITH STEARNS, CONRAD AND SCHMIDT, CONSULTING ENGINEERS, INC. (DATED DECEMBER 19, 2013)

## AGREEMENT FOR CONSULTING SERVICES

THIS AGREEMENT FOR CONSULTING SERVICES is entered into this 19<sup>th</sup> day of December, 2013 (the "Effective Date") by and between the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY, (the "Agency") and STEARNS, CONRAD AND SCHMIDT, CONSULTING ENGINEERS, INC. DBA AS SCS ENGINEERS, a Virginia Corporation ("Consultant").

#### RECITALS

- A. Agency has determined that it requires landfill consultation services from a consultant for the Industry Business Center.
- B. Consultant represents that it is fully qualified to perform such professional services by virtue of its experience and the training, education and expertise of its principals and employees. Consultant further represents that it is willing to accept responsibility for performing such services in accordance with the terms and conditions of this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein, Agency and Consultant agree, as follows:

## 1. Consultant's Services.

- a. Scope of Services. Subject to the terms and conditions set forth in this Agreement, Consultant shall perform the services set forth in the Scope of Work attached hereto and incorporated herein as Exhibit "A" ("Scope of Work").
- b. <u>Project Manager</u>. Consultant's Project Manager on this project will be Joseph Miller, who will have the overall responsibility and will supervise the work performed by Consultant on this project.
- expense, all personnel required to perform the services under this Agreement. All of the services required under this Agreement will be performed by Consultant or under its supervision, and all personnel engaged in the work shall be qualified to perform such services. Consultant reserves the right to determine the assignment of its own employees to the performance of Consultant's services under this Agreement, but Agency reserves the right, for good cause, to require Consultant to exclude any employee from performing services on Agency's premises.
- d. <u>Licenses</u>. Consultant will obtain all necessary licenses, permits and other approvals to perform the work specified in this Agreement and will pay all fees or taxes required for the issuance of the same.
- e. <u>Changes to Scope and Cost of Work</u>. Agency or Consultant may, from time to time, request changes in the scope of services and costs in this Agreement to be performed hereunder. Before any work is performed beyond the scope of services in this

f. <u>Time for Performance</u>. Consultant shall commence the services on the Effective Date and perform all services in conformance with the project timeline established by the Executive Director, set forth as Exhibit "B."

## 2. <u>City Representative</u>.

The Executive Director or his designee shall represent the Agency in the implementation of this Agreement.

## 3. Term of Agreement.

This Agreement shall commence on the Effective Date and shall remain in full force and effect until December 31, 2020, unless sooner terminated as provided in Section 4 herein.

#### 4. Termination.

The Agency may terminate this Agreement for any reason on ten (10) calendar days written notice to Consultant. Consultant shall have the right to terminate this Agreement for any reason on sixty (60) calendar days written notice to Agency. The effective date of termination shall be upon the date specified in the notice of termination, or, in the event no date is specified, upon the thirtieth (30th) day following delivery of the notice. Consultant agrees to cease all work under this Agreement on or before the effective date of such notice. In the event of termination by Agency, due to no fault or failure of performance by Consultant, Consultant shall be paid based on the percentage of work satisfactorily performed at the time of termination. In no event shall Consultant be entitled to receive more than the amount that would be paid to Consultant for the full performance of the services required by this Agreement. Consultant shall have no other claim against Agency by reason of such termination.

#### 5. Compensation.

## a. <u>Compensation</u> [check applicable provision]

Agency will compensate Consultant for the services provided to the reasonable satisfaction of the Agency pursuant to this Agreement. The project will have multiple phases and the exact details of those phases are yet to be determined. At this time and based on the estimated total cost, the total budget for the Consultant has been set at \$243,018.00. However pursuant to California Assembly Bill No. 1484, the Agency is required to prepare Recognized Obligation Payment Schedules or "ROPs" on a 6 month basis. The ROPs are reviewed for approval by the Oversight Board of the Agency and the State of California Department of Finance. This Agreement and Consultant will be listed in each ROPs for the estimated amount of the services to be provided by Consultant and the compensation projected to be required under this Agreement for each appropriate ROPs period. If the applicable line item in the ROPs is approved by the Agency, Oversight Board and Department of Finance, the Consultant will be notified of the approved amount. The Consultant shall not, during the 6 month period which is the subject of the approved ROPS, provide any services that requires compensation under this Agreement in an amount which exceeds the amount approved under the applicable line item,

based on the hourly rates set forth in Exhibit C attached hereto and incorporated herein by this reference. The initial amount for the ROPs 13-14B period (January 1, 2014 through June 30, 2014) has been approved for \$50,000.00. At the end of each 6 month period, the amount that was approved for that period will be reduced to zero and the amount approved in the next ROPs will become the new amount which shall not be exceeded during the next applicable 6 month period. Actual payments made to the Consultant will be continuously deducted from the total budgeted amount of \$243,018.00 until that amount has been fully exhausted or the project which is the subject to this Agreement has been completed. No amounts described above shall be exceeded except upon and pursuant to the prior written authorization by the Agency.

Agency will compensate Consultant for the services provided to the reasonable satisfaction of the Agency pursuant to this Agreement in an aggregate amount not to exceed \$\_\_\_\_\_. Such amount may only be exceeded upon and pursuant to the prior written authorization by the Agency.

# b. <u>Expenses</u> [check applicable provision]

- The amount set forth in paragraph a shall include Consultant's fees for the services as well as the actual cost of any equipment, materials, and supplies incurred by consultant in performing the work contemplated by this Agreement (including, but not limited to, all labor, materials, delivery, tax, assembly, and installation, as applicable).
- Consultant shall be entitled to reimbursement only for those expenses expressly set forth in Exhibit C. Any expenses incurred by Consultant which are not expressly authorized by this Agreement will not be reimbursed by City. In no event shall expenses exceed the sum of
- c. Additional Services. Agency shall make payments for any services requested by Agency not included in the Scope of Services to Consultant on a time and materials basis using Consultant's standard fee schedule.

### 6. Method of Payment

Consultant shall submit to Agency an invoice, on a monthly basis or less frequently, for the services performed pursuant to this Agreement. Each invoice shall describe in detail the services rendered during the period and shall show the days worked, number of hours worked and reimbursable expenses, if any, for each day in the period. Each invoice submitted shall include the appropriate documentation for any reimbursable expenses claim by Consultant. Within ten business days of receipt each invoice, Agency shall notify Consultant in writing of any disputed amounts included on the invoice. Within thirty calendar days of receipt of each invoice, Agency shall pay all undisputed amounts included on the invoice. Agency shall not withhold applicable taxes or other authorized deductions from payments made to Consultant. At any time during regular working hours, all records, invoices, time cards, cost control sheets and other records maintained by Consultant shall be available for review and audit by Agency.

### 7. Ownership of Work Product.

All reports, documents or other written material developed by Consultant in the performance of this Agreement shall be and remain the property of the Agency without restriction or limitation upon its use or dissemination by Agency. Such material shall not be the subject of a copyright application by Consultant. Any re-use by Agency of any such materials on any project other than the project for which they were prepared shall be at the sole risk of the Agency unless Agency compensates Consultant for such use.

# 8. Records Retention and Access to Records.

a. Consultant shall maintain full and accurate records with respect to all matters covered under this Agreement for a period of 2 years. Agency shall have access, without charge, during normal business hours to such records, and the right to examine and audit the same and to make transcripts therefrom, and to inspect all program data, documents, proceedings and activities. If applicable under this Agreement, all files, documents, samples, test results, chain of custody logs, and other records and other relevant data developed by Consultant in the course of performing this Agreement shall be maintained for a period of two (2) years after completion of all work and after final payments have been made and shall be made available to Agency upon request.

# 9. Confidential Status; Disclosure of Information.

All data, reports, documents, materials or other information developed or received by Consultant or provided for performance of this Agreement are deemed confidential and shall not be disclosed by Consultant without prior written consent by Agency. Agency shall grant such consent if disclosure is legally required. All Agency data shall be returned to Agency upon the termination of this Agreement. Consultant's covenant under this section shall survive the termination of this Agreement.

### 10. Qualifications; Standard of Performance.

- a. <u>Consultant's Qualifications</u>. Consultant has represented to the Agency that the Consultant, its employees and its subcontractors are knowledgeable, skilled and experienced and fully qualified to provide the services described in this Agreement and to perform such assessment, investigation, and analysis contemplated by the Agreement in accordance with good industry practices of Consultant's profession performing similar services under similar circumstances at the time the services are performed.
- b. Standard of Performance. Consultant, its employees and its subcontractors shall perform all work to the highest professional standards and in a manner reasonably satisfactory to Agency, and as described in the Scope of Work. All work performed by Consultant and its employees pursuant to this Agreement will be performed diligently and in a manner consistent with the standards of care, diligence and skill exercised by recognized consulting firms for similar services, and in accordance with all regulatory and good management standards, and in a good, safe and workmanlike manner. Consultant will be responsible to ensure that all work performed by its employees or any contractors is performed to

the standards set forth in this Agreement and that such work complies with requirements of any governmental agency or entity and applicable law.

# 11. Independent Contractor.

- a. Consultant is an independent contractor and shall have no power to incur any debt, obligation or liability on behalf of Agency. Consultant shall not, at any time or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of Agency.
- b. Consultant shall pay all required taxes on amounts paid to Consultant under this Agreement, and to indemnify and hold the Agency harmless from any and all taxes, assessments, penalties, and interest asserted against the Agency by reason of the independent contractor relationship created by this Agreement. In the event that Agency is audited by any Federal or State agency regarding the independent contractor status of Consultant and the audit in any way fails to sustain the validity of a wholly independent contractor relationship between Agency and Consultant, then Consultant agrees to reimburse Agency for all costs, including accounting and attorney's fees, arising out of such audit and any appeals relating thereto.
- c. Consultant shall fully comply with the workers' compensation laws regarding Consultant and Consultant's employees. Consultant further agrees to indemnify and hold the Agency harmless from any failure of Consultant to comply with applicable worker's compensation laws.
- d. The Agency shall have the right to offset against the amount of any fees due to Consultant under this Agreement any amount due to the Agency from Consultant as a result of Consultant's failure to promptly pay to the Agency any reimbursement or indemnification arising under this Section.

# 12. Indemnification.

To the fullest extent permitted by law, Consultant hereby shall, at its sole cost and expense, to defend, protect, indemnify, and hold harmless the Agency, its respective officers, attorneys, agents, employees, designated volunteers, successors, and assigns (collectively, "Indemnitees") from and against any and all damages, costs, expenses, liabilities, claims, demands, causes of action, proceedings, expenses, judgments, penalties, liens, and losses of any nature whatsoever, including fees of accountants, attorneys, expert witnesses, consultants, or other professionals and all costs associated therewith (collectively, "Claims"), resulting from any negligent act, error, omission or failure to act of Consultant or any of its subcontractors and their respective officers, agents, servants, employees, subcontractors, material men, suppliers or their respective officers, agents, servants or employees in connection with, resulting from, or related to this Agreement or for failure to perform or negligent performance of any term, provision, covenant, or condition of the Agreement, including this indemnity provision. This indemnity provision is effective regardless of any prior, concurrent, or subsequent passive negligence by Indemnitees and shall operate to fully indemnify Indemnitees against any such negligence. This indemnity provision shall survive the termination of the Agreement and is in addition to any other rights or remedies which Indemnitees may have under the law. Payment is not required as a condition precedent to an Indemnitee's right to recover under this indemnity

provision, and an entry of judgment against the Consultant shall be conclusive in favor of the Indemnitee's right to recover under this indemnity provision. Consultant shall pay Indemnitees for any attorneys fees and costs incurred in enforcing this indemnification provision. Notwithstanding the foregoing, nothing in this instrument shall be construed to encompass (a) Indemnitees' active negligence or willful misconduct to the limited extent that this Agreement is subject to Civil Code § 2782(a), or (b) the contracting public agency's active negligence to the limited extent that this Agreement is subject to Civil Code § 2782(b). This indemnity is effective without reference to the existence or applicability of any insurance coverages which may have been required under this Agreement or any additional insured endorsements which may extend to Indemnitees. This indemnity provision shall survive the termination of this Agreement and is in addition to any other rights or remedies which Indemnitees may have under the law.

- b. Consultant, on behalf of itself and all parties claiming under or through it, hereby waives all rights of subrogation and contribution against any Indemnitee with respect to those Claims.
- c. Consultant agrees to obtain executed indemnity agreements with provisions identical to those in this Section from each and every subcontractor or any other person or entity involved by, for, with or on behalf of Consultant in the performance of this Agreement. In the event Consultant fails to obtain such indemnity obligations, Consultant agrees to be fully responsible and shall indemnify, hold harmless and defend the Idemnitees from and against any and all Claims resulting from any alleged intentional, reckless, negligent, or otherwise wrongful acts, errors or omissions of Consultant's subcontractors or any other person or entity involved by, for, with or on behalf of Consultant in the performance of this Agreement as set forth in this Section.

### 13. <u>Insurance</u>.

- a. Consultant shall at all times during the term of this Agreement carry, maintain, and keep in full force and effect, insurance as follows:
- (1) A policy or policies of commercial general liability insurance written on an occurrence basis with limits no less than \$2,000,000 per occurrence and for all covered losses and \$2,000,000 general aggregate against any injury, death, loss or damage as a result of wrongful or negligent acts by Consultant, its officers, employees, agents, and independent contractors in performance of services under this Agreement;
- (2) Automotive liability insurance, with minimum combined single limits coverage of \$1,000,000 covering any vehicle utilized in the performance of services under this Agreement;
- appropriate written on a policy form coverage specifically designed to protect against acts, errors or omissions of the Consultant and "Covered Professional Services" as designated in the policy must specifically include work performed under this Agreement. The policy limit shall be no less than \$1,000,000 per claim and in the aggregate. The policy must "pay on behalf of" the

insured and must include a provision establishing the insurer's duty to defend. The policy retroactive date shall be on or before the effective date of this Agreement.

- (4) Worker's compensation and employer's liability insurance on a state-approved policy form providing benefits as required by law with employer's liability limits no less than \$1,000,000 per accident or disease.
  - (5) Pollution Liability Insurance. [check if applicable]
- Pollution Liability Insurance written on a Contractor's Pollution Liability form or other form acceptable to Agency providing coverage for liability arising out of sudden, accidental and gradual pollution and remediation. The policy limit shall be not less than \$1,000.000 per claim and \$3,000,000 aggregate.
- b. The policies required by this Agreement shall be issued by an insurer admitted in the State of California and with a rating of at least A:VII in the latest edition of Best's Insurance Guide.
- c. Consultant agrees that if it does not keep the insurance in full force and effect, the Agency may either immediately terminate this Agreement or, if insurance is available at a reasonable cost, the Agency may take out the necessary insurance and pay the premium thereon, and the repayment thereof shall be deemed an obligation of Consultant and the cost of such insurance may be deducted, at the option of Agency, from payments due Consultant, along with a reasonable administrative handling charge.
- d. Consultant shall submit to the Agency proof of compliance with these insurance requirements, consisting of a certificate or certificates of insurance and/or endorsements, not less than one (1) day prior to beginning of performance under this Agreement.
- e. Consultant shall provide proof that policies of insurance expiring during the term of this Agreement have been renewed or replaced with other policies providing at least the same coverage. Such proof will be furnished at least two weeks prior to the expiration of the coverages.
- f. The general liability, property damage and automobile policies of insurance shall contain an endorsement naming the Agency, its officers, employees, attorneys, agents and volunteers as additional insureds. All of the policies shall contain an endorsement providing that the policies cannot be modified, canceled or reduced except on thirty (30) days' prior written notice to the Agency. Consultant agrees to require its insurer to modify the certificates of insurance to delete any exculpatory wording stating that failure of the insurer to mail written notice of cancellation imposes no obligation, and to delete the word "endeavor" with regard to any notice provisions.
- g. The insurance provided by Consultant shall be primary to any other coverage available to the Agency. Any insurance or self-insurance maintained by the Agency, its officers, employees, agents or volunteers, shall be in excess of Consultant's insurance and shall not contribute with it.

- h. All insurance coverage provided pursuant to this Agreement should not prohibit Consultant, and Consultant's officers, employees, agents or subcontractors, from waiving the right of subrogation prior to a loss. Consultant hereby waives all rights of subrogation against the Agency, its officers, employees, agents and representatives.
- i. Any deductibles or self-insured retentions must be approved by the Agency. At the option of the Agency, Consultant shall either reduce or eliminate the deductibles or self-insured retentions with respect to the Agency or Consultant shall procure a bond guaranteeing payment of losses and expenses.
- j. If Consultant is a Limited Liability Company, the general liability coverage must be amended so that the Limited Liability Company and its managers, affiliates, employees, agents, and other persons necessary or incidental to its operation are insureds.
- k. The provisions of any workers' compensation or similar act will not limit the obligations of Consultant under this Agreement. Consultant expressly agrees not to use any statutory immunity defenses under such laws with respect to the Agency, its employees, officials and agents.
- 1. For purposes of applying insurance overage only, this Agreement will be deemed to have been executed immediately upon any party hereto taking any steps that can be deemed to be in furtherance of or towards performance of this Agreement.
- m. Consultant agrees to be responsible for ensuring that no contact used by any party involved in any way with the project reserves the right to charge Agency or Consultant for the cost of additional insurance coverage required by this Agreement. Any such provisions are to be deleted with reference to the Agency. It is not the intent of Agency to reimburse any third party for the cost of complying with these requirements. There shall be no recourse against Agency for payment of premiums or other amounts with respect thereto.
- n. Consultant agrees to provide immediate notice to Agency of any claim or loss against Consultant arising out of the work performed under this Agreement. Agency assumes no obligation or liability by such notice, but has the right (but not the duty) to monitor the handling of any such claim or claims if they are likely to involve the Agency.
- o. Procurement of insurance by Consultant shall not be construed as a limitation of Consultant's liability or as full performance of Consultant's duties to indemnify, hold harmless and defend under Section 12 of this Agreement.
- p. Consultant shall require each of its subcontractors to maintain insurance coverage that meets all of the requirements of this Agreement.

## 14. Mutual Cooperation.

a. The Agency shall provide Consultant with all pertinent data, documents and other requested information as is reasonably available for the proper performance of Consultant's services.

b. In the event any claim or action is brought against the Agency relating to Consultant's performance in connection with this Agreement, Consultant shall render any reasonable assistance that Agency may require.

#### 15. Notices.

Any notices, bills, invoices, or reports required by this Agreement shall be deemed received on: (a) the day of delivery if delivered by hand or overnight courier service during Agency's and Consultant's regular business hours; or (b) on the third business day following deposit in the United States mail, postage prepaid, to the addresses heretofore below, or to such other addresses as the parties may, from time to time, designate in writing.

### If to Agency:

Successor Agency to the Industry Urban-Development Agency 15625 East Stafford Street City of Industry, California 91744 Attn: Executive Director

### With a copy to:

Richards, Watson & Gershon 355 South Grand Avenue - 40<sup>th</sup> Floor Los Angeles, CA 90071 Attn: William L. Strausz, Esq. (213) 626-8484 Fax: (213) 626-0078

### If to Consultant:

SCS Engineers 6601 Koll Center Parkway, Suite 140 Pleasanton, CA 94566 Attn: Joseph J. Miller, P.E.

# 16. Representations and Warranties.

Consultant represents, warrants and covenants to the Agency:

- a. <u>Organization</u>. Consultant is duly organized, validly existing and in good standing under the laws of the State of California and in each other state in which it conducts business.
- b. Agency. Consultant has all requisite licenses, permits, certifications, power and authority to carry on its business as presently conducted, to enter into this Agreement, and to perform its obligations under this Agreement.
- c. <u>Approval</u>. The execution, delivery and performance of this Agreement by Consultant and the consummation of the transactions contemplated by this Agreement have been duly and validly authorized by the Board of Directors and are not subject to ratification by the Shareholders of Consultant at a special meeting therefore.

d. <u>Binding Obligation</u>. This Agreement has been duly executed and delivered on behalf of Consultant, and all documents and instruments required hereunder to be executed and delivered by Consultant have likewise been duly executed and delivered. This Agreement does, and such documents and instruments will, constitute legal, valid and binding obligations of Consultant in accordance with their terms. The consummation of the transactions contemplated by this Agreement will not violate, nor be in conflict with, any provision of the partnership agreement, charter, bylaws or governing documents of Consultant (or any of corporations comprising Consultant), or any agreement or instrument to which Consultant is a party or by which Consultant is bound, or any judgment, decree, order statute, rule or regulation applicable to Consultant.

### 17. Conflicts of Interest

Consultant and its officers, employees, associates and subcontractors, if any, will comply with all conflict of interest statutes of the State of California applicable to Consultant's services under this Agreement, including, but not limited to, the Political Reform Act (Government Code Section 81000, et. seq.) and Government Code Section 1090. During the term of this Agreement, Consultant and its officers, employees, associates and subcontractors shall not, without the prior written approval of the Executive Director, perform work for another person or entity for whom Consultant is not currently performing work that would require Consultant or one of its officers, employees, associates or subcontractors to abstain from a decision under this Agreement pursuant to a conflict of interest statute. Consultant agrees that a clause substantially similar to this section shall be incorporated into any sub-agreement, which Consultant executes in connection with the performance of this Agreement.

### 18. Accounting Requirements.

Consultant shall maintain an accounting system and records that properly accumulate and segregate incurred costs by line item for the project under the Scope of Work. The accounting system shall conform to the Generally Accepted Accounting Principles, enable the determination of incurred costs at interim points of completion, and provide support for reimbursement payment vouchers or invoices.

#### 19. Governing Law.

This Agreement shall be interpreted, construed and enforced in accordance with the laws of the State of California.

### 20. Compliance with Laws.

- a. Consultant shall comply with all applicable federal, state and local laws, ordinances, codes and regulations.
- b. Compliance with Environmental Laws. [check if applicable]
  Consultant shall comply with § 306 of the Federal Clean Air Act (42
  U.S.C. §1857(h)), § 508 of the Federal Water Pollution Prevention Act (33 U.S.C. § 368), and the laws implementing those acts, including Executive Order 11,738 and 40 C.F.R. pt. 15.

Consultant shall comply with the provisions of the "Barry Keane Underground Storage Tank Cleanup Trust Fund Act of 1989 (Health & safety Code §§ 25299.10 et. seq. and the applicable regulations promulgated thereunder (California Code of Regulations, Title 23, § 2810 et. seq. Consultant shall also comply with mandatory standards and policies relating to energy efficiency, according the state energy conservation plan issued in compliance with the Federal Energy Policy and Conservation Act.

21. Reliance on Reports [check if applicable]

Consultant understands that Agency will rely upon its reports, analysis and related date. Consultant understands and agrees that the reports prepared by Consultant, and the information, data, test results and the conclusions and analyses contained therein regarding the geologic and environmental condition of a site, and/or the soils and groundwater beneath a site, may be relied upon by the Agency, its program managers, consultants, attorneys and appraisers of a site, any purchaser and developer of a site, (provided that the limitations and restrictions set forth herein shall apply to such purchaser and developer) and may be submitted and relied upon by any local, state or federal agencies and entities, as a part of the evaluation of the risk associated with the development or use of the site and the soils and groundwater beneath a site, and for the purpose of assessing the geotechnical, hydro-geological and/or environmental condition of a site and the ground and surface water on, under and in the area of a site, issuing closure letters, permits, licenses or authorizations to develop a site, and to determine whether further environmental investigation, assessment, review or study is necessary, and so that the Agency and any designated purchaser and developer of any site can conduct construction activities on and develop the site.

# 22. <u>Discrimination and Equal Employment Opportunity</u>.

In the performance of this Agreement, Consultant shall not discriminate against any employee, subcontractor or applicant for employment because of race, color, creed, religion, sex, marital status, national origin, ancestry, age, physical or mental handicap, medical condition or sexual orientation. Consultant will take affirmative action to ensure that subcontractors and applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, religion, sex, marital status, national origin, ancestry, age, physical or mental handicap, medical condition or sexual orientation.

### 23. No Assignment.

Consultant shall not assign or transfer any interest in this Agreement nor the performance of any of Consultant's obligations hereunder, nor shall it subcontract any of the work described in this Agreement or the Scope of Work without the prior written consent of Agency, and any attempt by Consultant to so assign this Agreement or any rights, duties or obligations arising hereunder shall be void and of no effect.

# 24. Non-Waiver of Terms, Rights and Remedies.

Waiver by either party of any one or more of the conditions of performance under this Agreement shall not be a waiver of any other condition of performance under this Agreement. In no event shall the making by Agency of any payment to Consultant constitute or be construed as a waiver by Agency of any breach of covenant, or any default which may then

exist on the part of Consultant, and the making of any such payment by Agency shall in no way impair or prejudice any right or remedy available to Agency with regard to such breach or default.

#### 25. Attorneys' Fees.

If any action at law or suit in equity is brought to enforce or interpret the provisions of this Agreement, or arising out of the services provided by Consultant under this Agreement, the prevailing party shall be entitled to reasonable attorneys fees and all related costs in addition to any other relief to which it may be entitled.

## 26. Time Is Of The Essence.

Time is hereby expressly declared to be of the essence of this Agreement and of each and every provision hereof; and each and every provision hereof is hereby declared to be and made a material, essential and necessary part of this Agreement.

# 27. Exhibits; Precedence.

All documents referenced as exhibits in this Agreement are hereby incorporated in this Agreement. In the event of any material discrepancy between the express provisions of this Agreement and the provisions of any document incorporated herein by reference, the provisions of this Agreement shall prevail.

# 28. Entire Agreement and Amendments.

This Agreement, and any other documents incorporated herein by specific reference, represent the entire and integrated agreement between Consultant and the Agency. This Agreement supercedes all prior oral or written negotiations, representations or agreements. This Agreement may not be amended, nor any provision or breach hereof waived, except in a writing signed by the parties which expressly refers to this Agreement.

#### 29. Severability.

Wherever possible, each provision of this Agreement shall be interpreted in such a manner as to be valid under applicable law. If any provision of this Agreement, is determined by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions shall nevertheless continue in full force and effect.

30. Execution. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which when taken together shall constitute one and the same instrument.

WHEREFORE, the parties hereto have executed this Agreement as of the date first above written.

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

STEARNS, CONRAD AND SCHMIDT, CONSULTING ENGINEERS, INC. DBA AS SCS ENGINEERS

0

Tim Spohn, Chairman

By:

# EXHIBIT A

Scope of Services

#### Exhibit "A"

Environmental Consultants and Contractors

6601 Koll Center Parkway Suite 140 Pleasanton, CA 94566 925 426-0080 FAX 925 426-0707 www.scsengineers.com

## SCS ENGINEERS

December 12, 2013 File No. 011153213

Mr. Kevin Radecki, Executive Director Successor Agency to the Industry-Urban Development Agency 15625 East Stafford Street #100 City of Industry, California 91744

Subject:

Proposal for Landfill Engineering Services

Proposed Industry Business Center Development (IBC East)

State Route 60/57 Freeway at Grand Avenue

City of Industry, California

Dear Mr. Radecki:

This letter provides a proposal and budget for SCS Engineers (SCS) to provide landfill engineering services in support of your agency's proposed Industry Business Center (IBC) development project.

The IBC site consists of two large parcels, one on the east side of Grand Avenue that is roughly 245 acres, and one on the west side of Grand Avenue that is roughly 347 acres. SCS's proposal is specific to the first phase of development east of Grand Avenue (IBC East), which will entail rough grading and site preparation for up to 10 new commercial buildings with cumulative footprint area of 2.2 million square feet. The grading operation for IBC East will require earth cut and fill totaling approximately 8.5 million cubic yards.

Approximately 11 acres of land within the IBC East parcel, known as the former Valley Land Development Landfill (Landfill) was used as a municipal waste disposal site in the 1950's and 1960's. Current IBC East development plans call for excavation and relocation of approximately 40,000 cubic yards of debris (under a proposed building area), and reconsolidation of those materials onto the remaining Landfill footprint. Up to 45 feet of engineered clean fill soils will be placed atop the reconfigured Landfill to meet development grading requirements.

SCS proposes to assist your development team with engineering and permitting issues related to the presence of the Landfill.

### SCOPE OF SERVICES

Work to be performed by SCS will be at the direction of your agency and its consultants, and will include but not be limited to the following:

 Provide technical input and general specifications for waste excavation, relocation, environmental controls, and engineered fill placement in support of preparation of bid

#### Exhibit "A"

Mr. Kevin Radecki December 12, 2013 Page 2

documents for site grading (plans to be prepared by others). We understand the grading plans will be distributed to bidders in January 2014 and this is a fast-track item.

- Regulatory agency liaison and permit assistance with those agencies involved with redevelopment at old landfill sites - Regional Water Quality Control Board (RWQCB), South Coast Air Quality Management District (AQMD), Los Angeles County Department of Public Health and Department of Public Works, and CalRecycle.
- Preparation of landfill closure/post-closure maintenance and end use plan and cost estimates.
- Preparation of a waste excavation management plan for AQMD submittal.
- Abandonment and/or re-location of groundwater and landfill gas monitoring wells.
- Demonstration of financial assurance for post-closure maintenance and reasonably foreseeable releases.
- Preparation of conceptual plans for methane gas control and monitoring (LA County Building Code Section 110.3, California Title 27, AQMD Rule 1150.1).
- Water quality monitoring in support of agency inquiries, requirements, or permit conditions.
- Engineering design for site improvements landfill final grading, cover and drainage;
   environmental control systems; and methane gas control and monitoring.

#### COMPENSATION

We understand your agency has established a budget set aside of \$243,018 for landfill engineering services. SCS will bill against this amount on a time-and-materials or fixed fee basis, with a specific scope and budget agreed upon in advance for each task assignment and in accordance with your project priorities. Attached for reference is our Standard Fee Schedule.

# TERMS AND CONDITIONS

Our services will be performed in accordance with a professional services agreement between SCS and your agency, with mutually acceptable terms and conditions.

### Exhibit "A"

Mr. Kevin Radecki December 12, 2013 Page 3

### CLOSING

SCS looks forward to working with you on this project. If you have any questions regarding this submittal or desire any additional information, please contact the undersigned.

Sincerely,

Tina Quo Schmiesing Project Manager

SCS ENGINEERS

Joseph J. Miller, P.E.

Project Director / Vice President

SCS ENGINEERS

ce: Joshua Nelson, CNC Engineering

# **EXHIBIT B**

# Project Timeline

Start date:

December 19, 2013

Estimated end of construction:

December 31, 2020

Upon the start of construction a more detailed project schedule will be established.

# EXHIBIT C

Professional Fee Schedule Hourly Rates

### Exhibit "C"

SCS Fee Schedule April 1, 2013 — March 31, 2014 Page 2

- 6. Invoices will be prepared monthly or more frequently for work in progress, unless otherwise agreed. Invoices are due and payable upon receipt. Invoices not paid within 30 days are subject to a service charge of 1.5 percent per month on the unpaid balance.
- 7. Payment of SCS Engineers invoices for services performed will not be contingent upon the client's receipt of payment from other parties, unless otherwise agreed in writing. Client agrees to pay legal costs, including attorney's fees, incurred by SCS Engineers in collecting any amounts past due and owing on client's accounts.
- 8. For special situations such as expert court testimony and limited consultation, hourly rates will be on an individually negotiated basis.

# **EXHIBIT B**

Budget Increase Request from Stearns, Conrad and Schmidt, Consulting Engineers, Inc., dated July 10, 2018

[Attached]

# SCS ENGINEERS

July 10, 2018 File No. 01213392.00

Mr. Troy Helling, Acting Executive Director Successor Agency to the Industry-Urban Development Agency (Agency) 15625 East Stafford Street #100 City of Industry, California 91744

Subject: Proposal for a Budget Supplement

**Industry Business Center East Development (IBC East)** 

State Route 60/57 Freeway at Grand Avenue, City of Industry,

California(Agreement for Consulting Services dated December 19, 2013;

Consultant Contract No. 14-SCS 13-01A MP 99-31 16)

Dear Mr. Helling:

This letter provides a proposed budget supplement for SCS Engineers (SCS) landfill engineering services contract for the Agency's Industry Business Center East (IBC East) development.

Per the terms of the above-referenced Agreement, SCS has provided as-requested engineering, permitting and environmental operation, monitoring and maintenance (OM&M) services specifically addressing the presence of the closed Valley Land Development Landfill (VLDL) as it affects the completed IBC-East mass grading project through the period ending June 30, 2018. However, sufficient budget remained to cover costs through July 31, 2018. This budget supplement request addresses costs for work items not envisioned at the time that Amendments No. 2 and No. 3 to the Agreement were issued in January, 2016 and January 2017 respectively (see scope of work below) and continuing the ongoing as-requested engineering, permitting and OM&M services through December 31, 2018.

# SCOPE OF SERVICES

As part of IBC-East development, a landfill gas (LFG) collection and control system (GCCS) was installed and is now operated by SCS under the Agreement. In April 2017 the South Coast Air Quality Management District (SCAQMD) issued a Permit to Operate for VLDL that required compliance with SCAQMD Rule 1150.1 requirements. (All landfills in the South Coast Air District are subject to Rule 1150.1. The Rule has requirements for landfill surface emissions monitoring, LFG sampling, and LFG control system component leak monitoring and reporting, among other things. However, this Rule was not previously applied or enforced at the VLDL, nor was Rule applicability a condition of the AQMD Authority to Construct Permit for LFG control system.)

Due to this development, on behalf of the Agency, SCS prepared and submitted an application for an exemption from SCAQMD Rule 1150.1 requirements for LFG emissions control and



Mr. Troy Helling July 10, 2018 Page 2

monitoring, and/or a Rule 1150.1 Alternate Compliance Plan (ACP). The ACP and exemption would allow a reduction in site monitoring requirements and compliance costs, without compromising public safety and environmental protection.

To date SCAQMD has not completed processing of the application for an exemption and have not provided any indication when the exemption process will be completed. So beginning in 2017 SCS performed and continues to perform work to comply with SCAQMD Rule 1150.1 requirements and proposes to continue this work through December 31, 2018 as part of this Budget Supplement request. If the ACP and exemption is granted before December 31, 2018, we would re-assess the expected OM&M, monitoring requirements and compliance cost reduction to our overall provided services going forward to a term agreeable to the Agency.

### COMPENSATION

To cover the period of August 1, 2018 through December 31, 2018 we are requesting additional budget of \$80,000.00 via Amendment to the December 13, 2013 subject Agreement for Consulting Services and subsequent addenda issued by the Agency. As we continue to pursue an ACP from SCAQMD to potentially reduce site monitoring requirements and compliance costs, the amounts below estimates monthly costs for the work described above followed by a contingency for unexpected regulatory compliance, permitting, GCCS repairs and 3<sup>rd</sup> party support services cost fluctuations.

Total 2017	\$80,000
Contingency	\$10,000
Dec. 2017	\$14,000
Nov. 2017	\$14,000
Oct. 2017	\$14,000
Sept. 2017	\$14,000
Aug. 2017	\$14,000

SCS will continue to bill against the established budget amount on a time-and-materials basis, in accordance with the terms and conditions in the December 13, 2013 Agreement for Consulting Services and subsequent addenda issued by the Agency.

Mr. Troy Helling July 10, 2018 Page 3

# CLOSING

SCS looks forward to continue working with you on the IBC-East project. If you have any questions regarding this submittal or desire any additional information, please contact the undersigned.

Sincerely,

Dan Vidal

Sout & Vill

Project Director

SCS ENGINEERS

for/Joseph J. Miller, P.E.

Project Director / Vice President

SCS ENGINEERS

cc: Joshua Nelson, CNC Engineering