

Regional Sewerage Program Technical Committee Meeting

AGENDA Thursday, February 23, 2023 2:00 p.m.

Teams Conference Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting ODQ1MWU5ODUtOGI3ZC00NWViLWI0YmItOTI1NmYz YzcwZGYy%40thread.v2/0?context=%7b%22Tid%22%3a%224c0c1e57-30f3-4048-9bd2-cd58917dcf07%22%2c%22Oid%22%3a%22e1bc1283-cd05-48d8-a67b-d2365bb08cc2%22%7d

Teleconference: (415) 856-9169/Conference ID: 269959360#

This meeting will be held remotely via Teams. The public may participate and provide public comment during the meeting by calling the number provided above. Comments may also be submitted by email to the Recording Secretary Laura Mantilla at Imantilla@ieua.org prior to the completion of the Public Comment section of the meeting. Comments will be distributed to the Committee Members.

Call to Order

Roll Call

Public Comment

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Comments will be limited to three minutes per speaker.

Additions to the Agenda

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require twothirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of Regional Sewerage Program Technical Committee Meeting Agenda February 23, 2023 Page 2 of 2

1. Action Items

- A. Approval of January 26, 2023 Technical Committee Meeting Minutes
- B. Carbon Canyon Water Recycling Facility Asset Management and Improvements Construction Contract Award
- C. Request by the City of Chino for a Regional Connection Point to the Chino Trunk Interceptor Chino Regional Sewer Connection #C-46
- D. Request by the City of Chino to Change the Approved Connection Point to the Western Interceptor Relief (Chino Regional Sewer Connection #C-03D)
- E. Request by the City of Fontana for a Regional Connection Point to the Fontana Interceptor Relief Sewer (Fontana Regional Sewer Connection #F-36)
- F. Request by the Cucamonga Valley Water District for a Regional Connection Point to the Etiwanda Trunk Sewer Connection #CW-23

2. Informational Items

A. Operations & Compliance Updates (Oral)

3. Receive and File

- A. Draft Regional Sewerage Policy Committee Agenda
- B. Building Activity Report
- C. Recycled Water Distribution Operations Summary

4. Other Business

- A. Committee Member Requested Agenda Items for Next Meeting
- B. Committee Member Comments
- C. Next Regular Meeting TBD

Adjourn

DECLARATION OF POSTING

I, Laura Mantilla, Executive Assistant of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Laura Mantilla at (909) 993-1944 or Imantilla@ieua.org 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

ACTION ITEM

1A



Regional Sewerage Program Technical Committee Meeting MINUTES OF JANUARY 26, 2023

CALL TO ORDER

A regular meeting of the IEUA/Regional Sewerage Program – Technical Committee was held via teleconference on Thursday, January 26, 2023. Committee Chair Amanda Coker/Cucamonga Valley Water District called the meeting to order at 2:01 p.m. Recording Secretary Laura Mantilla took roll call and established a quorum was present.

COMMITTEE MEMBERS PRESENT VIRTUALLY OR IN PERSON:

Dave Crosley	City of Chino
Mark Wiley	City of Chino Hills
Amanda Coker	Cucamonga Valley Water District (CVWD)
Brian Wolfe	City of Fontana
Monica Heredia	City of Montclair
Chris Quach	City of Ontario
Nicole deMoet	City of Upland
Christiana Daisy	Inland Empire Utilities Agency (IEUA)

OTHERS PRESENT:

Eduardo Espinoza	CVWD
Jerry Burke	IEUA
Javier Chagoyen-Lazaro	IEUA
Robert Delgado	IEUA
Lucia Diaz	IEUA
Don Hamlett	IEUA
Elizabeth Hurst	IEUA
Randy Lee	IEUA
Scott Lening	IEUA
Eddie Lin	IEUA
Laura Mantilla	IEUA
Jason Marseilles	IEUA
Liza Muñoz	IEUA
Alyson Piguee	IEUA
Sushmitha Reddy	IEUA

OTHERS PRESENT (Continued):

Jeanina Romero	IEUA
Ken Tam	IEUA
Yvonne Taylor	IEUA

PUBLIC COMMENTS

There were no public comments.

ADDITIONS/CHANGES TO THE AGENDA

There were no additions/changes to the agenda.

1. ACTION ITEM

A. APPROVAL OF OCTOBER 27, 2022 TECHNICAL COMMITTEE MEETING MINUTES

<u>Motion</u>: By Nicole deMoet/City of Upland and seconded by Chris Quach/City of Ontario to approve the meeting minutes of the October 27, 2022, Regional Technical Committee meeting by the following vote:

Ayes: DeMoet, Crosley, Wiley, Wolfe, Daisy, Quach, Heredia, Coker

Noes: None Absent: None Abstain: None

The motion passed by a vote of 8 ayes, 0 noes, 0 abstain, and 0 absent.

2. INFORMATIONAL ITEMS

A. OPERATIONS & MAINTENANCE DEPARTMENT QUARTERLY UPDATE

Robert Delgado/IEUA provided an update on the Agency's assets, preventive and predictive maintenance, production flow rates, chemical consumption, and Inland Empire Regional Compost Facility production and sales.

B. IEUA - CITY OF RIALTO RECYCLED WATER PURCHASE AGREEMENT TERM SHEET

Liza Muñoz/IEUA provided the presentation. She stated that the City of Rialto approved the Water Resources Partnership Principles of Agreement in February 2022 and IEUA Board approved the Agreement in October 2022. Discussion ensued regarding the agreement, project cost, and funding source.

Chair Coker thanked IEUA for pursuing important projects that address peaking issues so that all agencies have access to their full entitlement.

C. OPERATIONS & COMPLIANCE UPDATES

Ken Tam/IEUA reported that in December 2022 testing for toxicity at Prado Lake failed. IEUA is currently investigating the cause and will be retesting this week. Mr. Tam informed the Committee that there has been an increase in ragging, fats, oils, and greases at the regional interceptors. IEUA's Manager of Facilities & Water System Programs will be discussing this topic at the Mutual Aide Partners meeting next month. This topic will also be discussed at the Pretreatment Subcommittee meeting.

3. RECEIVE AND FILE

Items 3A - 3C were received and filed by the Committee.

- A. DRAFT REGIONAL SEWERAGE POLICY COMMITTEE AGENDA
- **B. BUILDING ACTIVITY REPORT**
- C. RECYCLED WATER DISTRIBUTION OPERATIONS SUMMARY

4. OTHER BUSINESS

A. COMMITTEE MEMBER REQUESTED AGENDA ITEMS

There were no committee member comments.

B. COMMITTEE MEMBER COMMENTS

There were no committee member comments.

C. <u>NEXT MEETING</u>

TBD

ADJOURNMENT – Chair Coker adjourned the meeting at 2:40	p.n	n.
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Prepared by:		
	Laura Mantilla, Recording Secretary	

ACTION ITEM

1B



Date: February 2023/March 2023

To: Regional Committees

From: Inland Empire Utilities Agency

Subject: Carbon Canyon Water Recycling Facility (CCWRF) Asset Management

and Improvements Construction Contract Award

RECOMMENDATION

It is requested that the Regional Committees recommend the Inland Empire Utilities Agency (IEUA) Board of Directors award the construction contract for the Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvements to the lowest, responsive bidder in the amount of \$20,856,916.

BACKGROUND

Carbon Canyon Water Recycling Facility (CCWRF) has been in operation for close to 30 years with limited rehabilitation done. In order to remain in compliance and continue meeting title 22 requirements, the plant requires a number of overhaul services that include major equipment replacement. Specifically, the headworks bar screens and conveyance system, odor control system, aeration blowers and controls, and tertiary filter components are all in need of replacement. In April 2017, the Board awarded a consulting engineering services contract for the CCWRF Asset Management and Improvements Project No. EN17006, to CDM Smith (Engineering Consultant), for the not-to-exceed amount of \$3,631,892 to provide design services for the improvements identified above.

On November 15, 2022, IEUA issued an invitation for bids to five contractors prequalified in April 2022. On February 9, 2023, IEUA received five construction bids with the lowest, responsive bidder being from Garney Pacific Construction in the amount of \$20,856,916; the engineer's estimate is \$25,500,000.

Canyon Water Recycling Facility (CCWRF) Asset Management and Improvements, Project No. EN17006, Construction Contract Award February 2023/March 2023 Page 2 of 2

The following table presents the anticipated project cost:

Description	Estimated Cost
Design Services	\$4,919,708
Design Consultant Contract	\$3,326,339
IEUA Design Services	\$1,593,369
Construction Services	\$2,174,775
Engineering Services During Construction	\$899,775
IEUA Construction Services (~5%)	\$1,275,000
Construction	\$24,584,530
Construction (this action)	\$20,856,916
Contingency (~10%)	\$2,100,000
Lone Star Blower Purchase	\$171,000
EN17006.01 CCWRF 12Kv Backup Generator Control Circuit Improvements	\$1,456,614
Total Project Cost:	\$31,679,013
Total Project Budget:	\$30,007,050
Total Project Budget Increase:	\$1,742,950
Revised Total Project Budget:	\$31,750,000

The following is the project schedule:

Project Milestone	Date
Construction Contract Award	March 2023
Construction Completion	September 2025

The Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvement Project is consistent with *IEUA's Business Goal of Wastewater Management*, specifically the Asset Management objective that IEUA will ensure the Wastewater treatment plants are well maintained, upgraded to meet evolving requirements, sustainably managed, and can accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.

Attachment 1



Project Location

Carbon Canyon
Water Recycling
Facility (CCWRF)

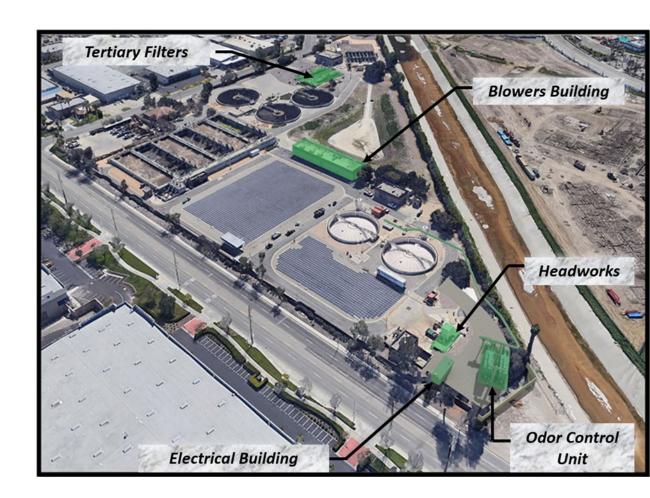




Project Scope

Replace equipment at the end of service life

- Headworks Bar Screens
- Odor Control System
- New Electrical Building
- Aeration Blowers
- Aeration Basin Ammonia Analyzers
- Tertiary Treatment Filter Improvements





Contractor Selection

Five bids were received on February 9th, 2023, from pre-qualified contractors:

Bidder's Name	Final Bid Amount	
Garney Pacific Construction	\$20,856,916	
Innovative Construction Solutions	\$21,049,000	
J.F. Shea Construction Inc.	\$23,165,742	
Kiewit Infrastructure West Company	\$24,657,000	
Flatiron West, Inc.	\$25,610,742	
Engineer's Estimate	\$25,500,000	



Project Budget and Schedule

Description	Estimated Cost
Design Services	\$4,919,708
Design Contract (CDM Smith)	\$3,326,339
IEUA Design Services	\$1,593,369
Construction Services	\$2,174,775
CDM Smith Engineering Services During	
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Total Project Cost	\$31,679,013
Total Projected Budget	\$30,007,050
Total Project Budget Increase	\$1,742,950
Revised Total Project Budget	\$31,750,000

Contract Milestone	Date
Construction Award	March 2023
Construction Completion	September 2025



Recommendation

 It is requested that the Regional Committees recommend to the Inland Empire Utilities Agency (IEUA) Board of Directors to award a construction contract for the Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvements, Project No. EN17006, to Garney Pacific Construction in the amount of \$20,856,916.

The Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvement Project is consistent with *IEUA's Business Goal of Wastewater Management*, specifically the Asset Management objective that IEUA will ensure the Wastewater treatment plants are well maintained, upgraded to meet evolving requirements, sustainably managed, and can accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.



ACTION ITEM

1C



Date: February 23, 2023

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Chino for a Regional Connection Point to the Chino Trunk

Interceptor Chino Regional Sewer Connection # C-46 (Project No. EN0000000148)

RECOMMENDATION

It is recommended that the Regional Technical Committee tentatively approve the request by the City of Chino for one new connection point to the Chino Trunk Interceptor (Chino Regional Sewer Connection # C-46) pending:

1. The City of Chino providing the LAFCO approved resolution ratifying the Irrevocable Agreement to Annex the noted area for sewer service.

BACKGROUND

In April of 2001, the Inland Empire Utilities Agency (IEUA) received a request from the City of Chino to evaluate the impact to the Regional Sewerage System due to the annexation of the Serenity Trails development to the City of Chino as well as the surrounding area to the north and east (approved connection C-45). In November 2022, a request for a new connection within the previously analyzed sphere was received (Proposed Connection C-46). IEUA originally evaluated this proposed connection area, and it was previously determined that it would not impact sewers serving this, and the surrounding areas. This detailed analysis indicated that eventual annexation of the area to the north and east by the City of Chino would not cause an impact to the Regional System, if the connections were consistent with the base line modeling that was performed.

A request dated December 7, 2022 (Attachment "A"), has been provided, based on previous correspondence between the City, property owner, and IEUA, for connection of the existing Congregate Home (CACH) Development, located at 3408 Chino Avenue, Chino in the unincorporated area of Chino. This development will expand to a 15-bedroom assisted living facility for 18 disabled person and will require a new regional connection to the Chino Trunk Interceptor at Station 29+13.25 through a tie-in to an existing manhole on the 15-inch interceptor.

When expanded, the development will encompass approximately 7.37 acres with a 8,366 square foot, 15-bedroom living health facility. An overall vicinity map is provided (Attachment "B") that was used to evaluate the Serenity Trails development previously. It shows the location of the noted development for Tributary Area C-46 within the previously analyzed C-45 (orange boundary line).

The Average Dry Weather Flow (ADWF) was provided by the city for the proposed development. IEUA utilized its peak dry and wet weather flow factors since they are more conservative.

SUMMARY OF FLOW RATES UTILIZED

Chino Regional Connection C-46:

Average Dry Weather Flow (ADWF) Rate = 0.0012 MGD Peak Dry Weather Flow (PDWF) Rate = 0.0039 MGD Peak Wet Weather Flow (PWWF) Rate = 0.0055 MGD

The hydraulic model was used to evaluate the capacity of the Chino Trunk Interceptor, and Interceptors downstream, as part of the Serenity Trails evaluation (C-45). The projected total PWWF originally for Serenity Trail and its tributary area was 1.094 MGD. This is less than the maximum capacity of 1.11 MGD in the Chino Trunk Interceptor at the downstream limiting 15" pipeline/siphon. Flows for development of connection C-46 are consistent with this original analysis. The analysis indicates that the downstream sewer(s) /have sufficient capacity to convey Chino and Chino Hills flows plus the Serenity Trail development/tributary area and C-45 area for PWWF. Under PDWF conditions, the pipe will be less than half full.

ATTACHMENT A

City of Chino Regional Interceptor Request Dated December 7, 2022 EUNICE M. ULLOA Mayor

MARC LUCIO Mayor Pro Tem



KAREN C. COMSTOCK CHRISTOPHER FLORES WALT POCOCK Council Members

DR. LINDA REICH City Manager

December 7, 2022

Mr. Matthew A. Poeske, PE Office Engineer Inland Empire Utilities Agency 6075 Kimball Avenue Chino, CA 91708

Subject: City of Chino Sewer Connection Request to existing 15" Chino Regional Sewer at Station 29+13.25, Connection No. C-46 for the Chino Avenue Congregate Home, Inc.

Dear Mr. Poeske:

The Chino Avenue Congregate Home ("CACH") is an existing 2,389 sq. ft. single family residential structure located at 3408 Chino Avenue in the unincorporated area of Chino. At this property, CACH currently operates a six (6) bed Congregate Living Health Facility licensed by the State of California Department of Public Health. This facility contains three (3) bedrooms, accommodating two (2) disabled persons per bedroom between the ages of 18 to 59 years of age. Currently, the property owner is moving forward with a 5,977 sq. ft. addition for a total of fifteen (15) bedrooms to accommodate eighteen (18) disabled persons moving into the future.

CACH's sole purpose is to provide care for individuals having more needs than what a skilled nursing facility can provide. For example, patients are typically young men in their early 20s that have been in an auto accident resulting in a coma requiring ventilator support. Patients also work with a physical therapist on a regular basis encouraging range of motion movements. Patients begin their journeys through altered levels of consciousness until patients are able to follow instructions, ween off ventilator support, learn to eat and talk again with a speech therapist, and become strong enough to stand and walk with help.

In 2021, CACH received a "Will Serve" letter from the City of Chino for sewer connection and began the process with San Bernardino County to seek approval for the expansion of the existing facility, which was approved in 2022. Upon approval of the project, representatives from CACH reached out to City staff to initiate the process to connect to the public sewer system. Shortly thereafter, City staff discovered that no City-owned sewer line existed in Chino Avenue to serve CACH and an on-site septic system is not viable option due to the size of the parcel and the additional flows attributed to the expansion. Therefore, the only recourse for this project is to



Mr. Matthew A. Poeske, PE Inland Empire Utilities Agency

Subject: City of Chino Sewer Connection Request to existing 15" Chino Regional Sewer at Station 29+13.25, Connection No. C-46 for the Chino Avenue Congregate Home, Inc.

December 7, 2022

Page 2

connect to the existing transmission line in Chino Avenue owned by the Inland Empire Utilities Agency (IEUA).

The property owner has not yet executed a Covenant Agreement to Annex and for Sanitary Sewer Connection ("Agreement") with the City for said property. Provided that enough capacity exists to accommodate flows coming from the proposed site, the owner will move forward with an Agreement with the City of Chino. Upon receipt of the Agreement, the City will then proceed with submitting for City Council consideration, a resolution authorizing the City Manager to execute the Local Agency Formation Commission ("LAFCO") Application for Extension of Service by Contract and approve the Agreement. Because this project is not considered new development, there is no proposed hearing date for LAFCO as these types of applications are approved administratively. Upon the approval by LAFCO, the City of Chino will provide the approved resolution ratifying the Agreement to IEUA.

Therefore, the City is hereby formally requesting "one" new point of connection for the CACH expansion project. The proposed connection is a 6" sewer lateral to the existing IEUA sewer manhole No. 9. The sewer lateral point of connection to the existing manhole would be located at Station 29+13.25 on sheet 4 of approved Sewer Plan Chino Avenue Sewer Connector No. C-46.

The peak wastewater flows included in the sewer study provided by M L Engineering on behalf of CACH are summarized below:

Calculated Flows Chino Avenue Congregate Home, Inc. Expansion:

- 1. The estimated average outflow is 1,200 gallons per day
- 2. The estimated maximum outflow is 3,640 gallons per day

Calculated Tributary Flows:

- 1. Average Dry Weather Flow (ADWF) = 0.0012 million gallons per day
- 2. Peak Wet Weather Flow (PWWF) = 0.00364 million gallons per day

If you should need any further information, please feel free to contact Sylvia Ramos, Associate Engineer at (909) 334-3418.

Sincerely,

Jesus Plasencia, P.E. Assistant City Engineer



RESIDENTIAL ● COMMERCIAL
 INDUSTRIAL ● INSTITUTIONAL
 ENGINEERING DESIGN

1391 North 3rd Avenue Upland, CA 91786 909-949-0923 909-946-4813 FAX mlengineering1@aol.com

Excellence in Structural Design

PROJECT : Chino Congregate Home Date : 08.04.2022

Location : 3408 Chino Avenue,

Chino, CA 91710.

To Whom it May Concern,

The Following table is a total calculation of Drainage fixture units (DFU) for the Chino Congregate Home building.

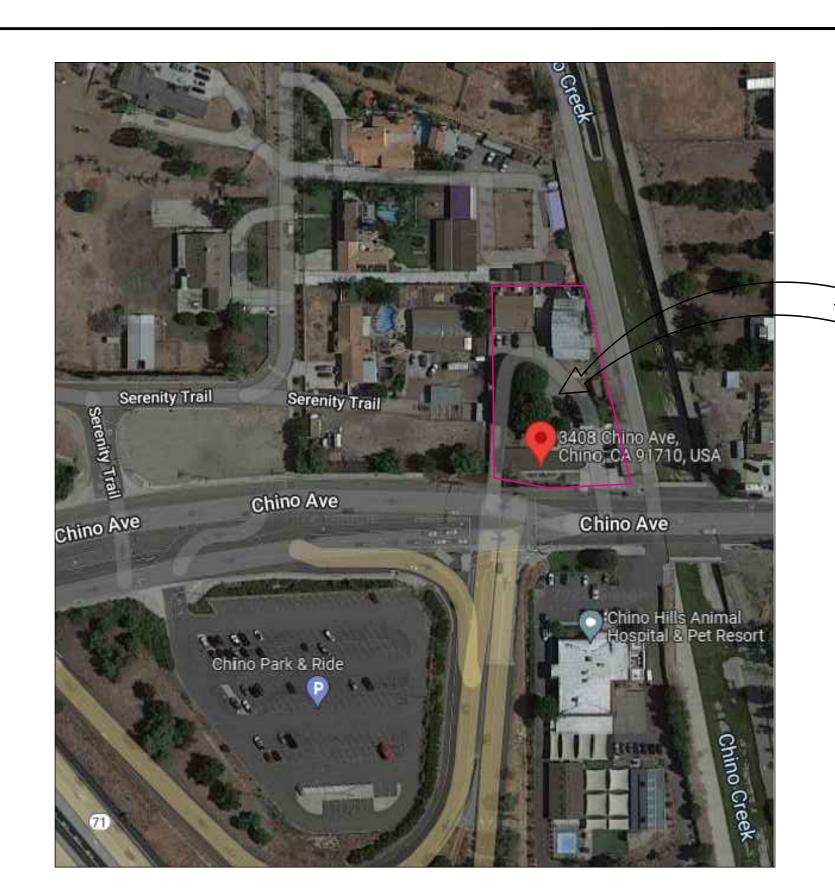
TOTAL FIXTURE UNIT CALCULATIONS ALL BUILDINGS (RENTAL HOUSE + CONGREGATE HOUSE)

UNIT TYPE	OTV	DRAINAGE
UNITITE	QTY	TOTAL (DFU)
WC (3)	13	39
LAVATORY (1)	23	23
SINK (2)	3	6
SHOWER (2)	11	22
LAUNDRY (3)	2	6
TOTAL FIXTURE UNITS	52	96
EQUIVALENT WATER DEMAND IN GPM		62
REQUIRED MINIMUM PIPE SIZE		4"



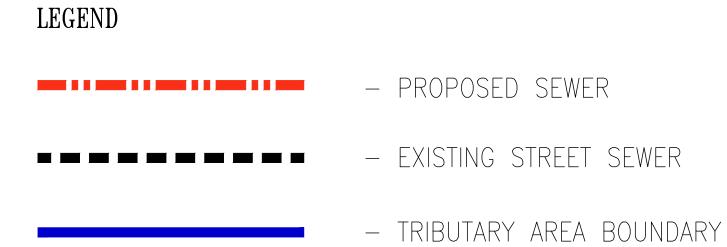
Mauricio Lopez, PE

TRIBUTARY BOUNDARY MAP **FOR** CHINO AVENUE CONGREGATE HOME, INC. (E) RENTAL HOUSE 125'-1" PROPERTY LINE 125.08' (E) 6' BLOCK WALL (E) BARN (E) RENTAL 3992 SQ FT 10'-0" -(N) 4" SEWER — SAND BAĢ EROSIΦŅ CONTROL (E) SEPTIC TANK (E) 6' CHAIN LINK FENCE (E) 6' FENCE SERENITY (N) ADDITION (E) TREE 30" TRUNK (E) EDISON POWER POLE W/ METER SOCKET_ (E) 10' SLIDING (E) 5' TALL CHAIN LINK FENCE **GATE** (E) 5X28 SEEP PIT -(N) 4" SEWER LINE 21'-0" (E) SEPTIC TANK 6X10 / 1000 GAL -±209.00 @ TOP – (E) 6' TALL CHAIN LINK FENCE ±204.00 @ BOTTOM ∠(E) CONC (E) 6' GATE W/ SELF CLOSING (E) CONC DRIVE (E) 6' FENCE (E) HOUSE W/ VEHICLE GATE -20'-0" -(N) MANHOLE (E) GRAVEL AREA — -5'-0" TO BOTTOM GRASS AREA. (E) 6' TALL BLOCK WALL PROPERTY LINE 180.19' 197'-2" ±201.0 -(N) PROPOSED 4" LATERAL C/L CHINO AVE FOR CONGREGATE HOME N89° 14' 38" E 303.99' -(E) 15" SEWER MH #8-STA 32+17.24 $\frac{MH \ \#9}{STA \ 29+13.25}$ MAIN LINE SITE PLAN SCALE: 1/16"=1'-0"



> PROJECT

TRIBUTARY BOUNDARY MAP





CITY OF CHINO

TRIBUTARY BOUNDARY MAP
FOR
CHINO AVENUE CONGREGATE HOME, INC

SHEET _1__ NO. _1__

VICINITY MAP

IMPROVEMENT PLANS FOR PARCEL MAP NO. 10048 IN THE COUNTY OF SAN BERNARDINO FOR THE CONSTRUCTION OF CHINO, AVE. SEWER IMPROVEMENTS

CONSTRUCTION NOTES & ESTIMATE OF QUANTITIES SEWER UNIT QUANT ITEM DESCRIPTION [1] CONST 48" PRECAST CONCRETE MANHOLE PER STD. 8-5 CONST. 8" SEWER LATERAL (VEP OR REG) CONST. 10 SEWER MAIN (VCP OR ABO) 4 CONST 15" SEWER MAIN IVEP OR ABO) LE. 2111 9 REMOVE EXISTING PLUG & JOIN INGTALL 8" PLUG JACK & BOKE 20" LP. STEEL CASING [8] JACK & BOKE BLY LD GIEEL CAGING 9 UNATALL OF D.J.P. 11949 BEND INSTALL 6" DIP 1140 PEND CONST. GOT PRECAST CONCRETE MANHOLD PER STD. G-5 (MODIFIED) EDNAST PARAMALL FLUME PER ATM AS 71 (MODIFIED PER DETAIL UN ART. 1) REMOVE AND REPLACE SE PAVEMENT AND BASE (PERIFETALL ON SHILT) I SEE SHILL FOR PLAN) LEMONE AND REPUBLE 655 PANEMENT AND BARSE (PER PUBLIC ON SIG. 1) 16FF 5HT 4.5 (5) BR. PLANT CONGT. TRENCH BACKFILL (PER DEVAIL ON WITHTE ONAT BY EPOXY LINED DIE P ENGTITE JOINE. 216 CNEAT WEEPDXY-EINER WILE FMEATHE DOINT 21b CONST. 24" SEWER MAIN (YEP DR ABS) CONST. WIRYOU S GOD (VIR MENT)

The existence and location of any underground utility pipes or structures shown on this plan are obtained by a search of available records. To the

best of our knowledge there are no existing utilities except as shown on

All contractors and subcontractors performing work shown on or related to these plans shall conduct their operations so that all employees are

The civil engineer shall not be responsible in any way for the contractors'

Regulations" of the U.S. Department of Labor or with the State of California Department of Industrial Relations' "Construction Safety Orders."

this project, including safety of all persons and property; that this require-

ment shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the owner and the engineer hormless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability

and subcontractors' compliance with the "Occupational Safety and Health

Contractor further agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of

Department of Industrial Relations' "Construction Safety Orders."

arising from the sole negligence of the owner or the engineer.

REVISIONS

CHECKED

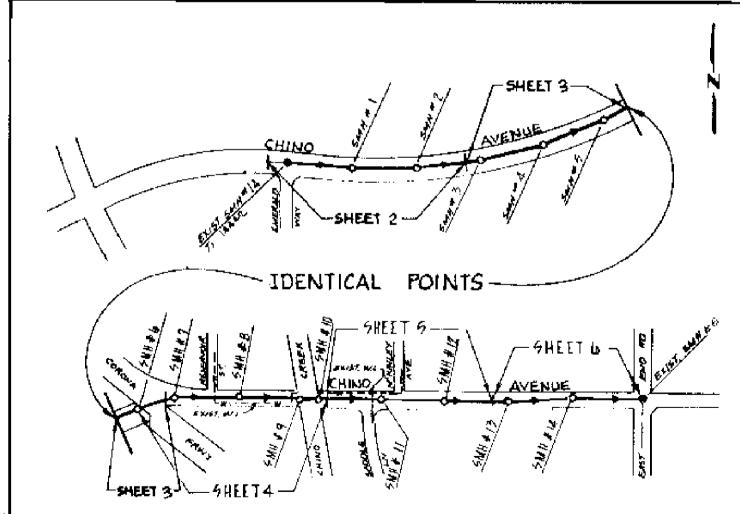
measures to protect the utility lines shown and any other lines or structures not of record or not shown on these drawings. It shall be the contractor's responsibility to notify the owners of the utilities or structures concerned before starting work. The contractor, further assumes all liability and responsibility for the underground utility pipes, conduits, and structures shown or not shown on these drawings.

these plans. The contractor is required to take due precautionary

UNDERGROUND SERVICE CALL: TOLL FREE 422-4133

NBS / LOWITY ENGINEERS . PLANNERS Information Obtained From

_ NBS/L Records Contractor's Records by NOIM N. Y Date 10 9 9 9



provided a safe place to work and the public is protected. All contractors and subcontractors shall comply with the "Occupational Safety and Health Regulation" of the U.S. Department of Labor, and with the State of California

11-9-90

BOALS A 2 SHOWN

DATE

1932 E. DEERE AVE. SUITE 100 SANTA ANA, CA. 92705 (714) 261-9560

BASIS OF BEARING

brarings shown hereon are based on the CENTERLINE OF PEYTON DRIVE BEING N GO'IS'IN'W PER TRACT 12581-1, M.B. 177/9-18, RECORDS OF SAN BERNARDINO, CÁLIFORNIÁ

PLANS PREPARED FOR

BRAMALEA CALIFORNIA INC.

ONE PARK PLAZA, SUITE 1100

(7|4)85|-3|3|

IRVINE, CA. 92714

BENCH MARK:

APPR

DESIGNED

NOTICE TO CONTRACTORS:

CAL TRANG DENCH MARK 3-58-17-58 PER F.B. 07-LA-071-B PAGE 1-D CHISELED SQUARE IN NW. EDGE OF HEADWALL 330' SOUTHERLY OF COUNTY LINE, FO' WEST OF CENTERLINE CONST. ELEVATION.777.13 HIGHWAY TI.

DISTRICT, MANAGER

Musmann

ALL MORK SHALL BE PERPORMED IN ALCOHOMANCE MISTO THE COUNTY OF SAN BERNARDING MATERMORES DISTRICT NO. 8 STANDARD PROCEDURES AND REQUIREMENTS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF MATER AND MOSTEWATER PACIFITIES CHEKENI EDITION AS DI DATE OF

GENERAL NOTES WATER WORKS DIST. Nº 8

- THE ATMINATORY SHALL APPLY FOR A CONSTRUCTION PIRMIT FROM THE SAN BERNARDING COUNTY MATERIANALS DISTRICT NO. . AND ARRANGE FOR A PRE-CONSTRUCTION CONFERENCE AT LEAST COME WEEK PRIOR TO MIGHNING CONSTRUCTION.
- BEFORE WORK IS STATED THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN PUBLIC
- THE CONTRACTOR SMALL UNCOVER AND VERSEY THE LOCATION AND DIFFIN OF ALL LAISTING HITLIET LINES PRICE TO EXCAVATING. THE CONTRACTOR SHALL MAKE APPROVED ATE ARRANGING MENTS FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY UNLANGHOURD SERVICE ALERT AT 3-800-472-4139 PRIOR TO BECINAING MORE.
- ANY CONTRACTOR PERFORMING WORK OR THIS PROJECT SHALL FAMILIARIZE HIMSELF HIMSELF HIMSELF AND SHALL BE SOURLY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OF INDIRECTLY PROPERTY OF PROPERTY OF MICHAEL OR NOT SUCH PACILITIES ARE SHOUND
- THE CONTRACTOR'S ATTENTION IS EXPRESSLY PIRECTED TO ALL THE REQUIREMENTS AND PROVISIONS OF THE STATE OF CALIFORNIA SAFETY REGULATIONS. COMPONHANCE THERE SHALL BE STRICTLY ENPONCIES DURING THE ENTIRE CIFE OF THE CONTRACT. AN EXCAVATION PERMIT WILL BE REQUIRED FOR THE WORKS IN EXCESS OF 5.0 FEET IN DEPTH.
- THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION OUTSIDE OF THE PROJECT AREA, ON
- COMPACTION TEST SHALL BE REQUIRED FOR ALL TRENCH BACKFILL FER SAN BERNARDING COUNTY MATERMORKS DESTRICT NO. 8 STANDWHOUS AND SPECIFICATIONS.
- CONTARTRATION PRICE TO PLACING IN TRENCH AND SHALL BE INSTALLED IN ACCORDANCE WITH DISTRICT STANDARDS TO THE SATISFACTION OF THE DISTRICT'S INSPECTOR
- AND IN ACCORDANCE MITH THE STANDARD SPECIFICATIONS. MATERIAL FOR BACKFILL TO TWELVE 117) INCHES ABOVE THE PIPE SHALL OF CHANGLAS MATERIAL WITH A MINIMUM SAND EQUIVALENT
- 13. NO PIPELINE SHALL BE INSTALLED ON FILL NATERIAL VITNESS SECTION IN-PLACE DESIGN TESTS REQUIRED BY THE COUNTY OF SAN BERMARDENG. COMPACTION IN INTERMEDIATE ZONE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION (MUNISPLES SEC. 1.2 OF TECH. SPECS).
- 14. ALL MORA SHALL BE INSPECTED BY SAN BENJARDING COUNTY WALLENGORE DISTRICT NO. 8, OR 215 DULY AUTHORIZED ACENT. THE CONTRACTOR SHALL BUT PROCEED WITH ANY STREETHING PRASE OF WORK UNTIL THE PREVIOUS PHASE HAS BEEN INSPECTED AND APPROVED. INSPECTION SHALL BE MADE OF THE POLLOWING INTERVALS OF MORE:
- A. TRENCHING, PLACING OF PIPE, VALVES, FISTINGS AND NAMHOLES.
- MACAFILL AND COMPACTION.
- OTHER UNDERCROOKS UTILITIES IN PLACE.
- LEARAGE TESTING. E. HANNOLES AND VALVE BOXES RAISED TO CHADE AND LINES PLUSHED
- F. FINAL INSPECTION.

PRECEDING DAY.

SAN BERNARDINO

COUNTY WATERWORKS DISTRICT NO. 8

- 15. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS, MOTICE WHEN INSPECTIONS OR ENGINEERING JUNCEMENTS AROUNE MECESSARY AS SET FORTH IN THE STANDARDS.
- 16. CONTRACTOR AGREES THAY HE BHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR HOR SITE COMDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PENSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT ME LIMITED TO HORMAL MORRETHE HOURS: AND THAT THE CONTRACTOR SHALL DEFEND, ENDEMNERY AND HOLD THE OWNER, THE ENGINEER, AND THE DISTRICT AND HIS REPRESENTATIVE, HARMLESS FROM ANY ARE ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LEADILITY ARISING FROM THE BOLE RECLIGENCE OF THE OWNER OR
- 17. ALL TREWHEN SHALL BE EXCAPATED WITH VERTICAL WALLS, TRENCH WIRTH SHALL BE HO SEENTER THAN & INCHES OUTSIDE THE PIPE O.D. AS SHOWN ON STANDARD DWG 5-3 AND W-4 UNLESS STHERWISE APPROVED BY THE DWINER EXCEVETION SHALL DE BACHFILLED UPON PLACEMENT OF PIPE OR STRUETURES NO LATER THAN ZA HOURS AFTER RECEIVING INSPECTION APPROVAL BY SOMETHING ASSENCY. WHEN INCLEMENT WESTHER IS FORECAST FOR THE FOLLOWING DAY (10% GRANCE OR BETTER TO MAIN) ALL EXPANATION SHALL BE BACKFILLED BY THE END OF THAT
- SPECIAL SEWER MOTE: CWIND NEST TRACE 14442 MAN BY READY FOR ACTIVE SEWER PRIOR TO COMPLETION OF CHIND AVENUE SEWER IF THE UNITED AUTHOR WHICH TO FINITED IN AUGUST PRINCE OF THE PRINCE THE PRINCE THE PRINCE THE CASE THE LAACE MOTE AND THE WEST ARE ARRESTED TO FOR ARABITET AT THE UNITED HE PRINCE AND PRINCE AND PRINCE THE PRINCE AND PRINCE AND PRINCE THE PRINC AN INTERIM PUMPING ENCIL IT Y APPROVED BY THE DIPOTRICT.

TRACT 14442

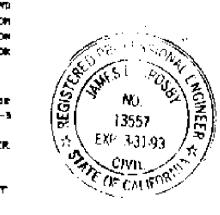
SEWER NOTES

- 10. LATERALS SHALL EXTEND TO PROFEREY LINE UNLESS SHOWS OTHERWISE OF FLAME
- . SE-PER CONSTRUCTION SHALL STAIC A HINDHON OF 5.0 PROT PROM ANY CENTIFIES STATE OF MANHOUR, THE CLOSING SECTION SHALL NOT BE INSTALLED UNTIL ALL MAINS NAVE INCOME. CLEAMED, TESTED AND TENTATIVELY ACCUSTED BY THE BISTOLICY IN WRITING.

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GENERAL NOTES - COMMO CONSTRUCTION

- ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE PROJECT SPECIFICATIONS AS APPROVED BY CHINO BASIN PUNICIPAL WATER DISTRICT, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND THE COMMO STANDARD DETAIL SHEET OF THIS PLAN SET (SHT. B) AS APPROPRIATE.
- 2. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WETH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS WHETHER OR NOT SHOWN ON THESE PLANS.
- ALL OBSTRUCTIONS WITHIN THE AREA TO BE IMPROVED ARE TO BE REMOVED OR RELOCATED AT THE DIRECTION OF THE ENGINEER. UTILITIES ARE TO BE RELOCATED BY THEIR RESPECTIVE DWNERS. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 4. UTILITY LINE LOCATIONS WERE TAKEN FROM RECORD AND WERE NOT LOCATED IN THE FLELD UNLESS OTHERWISE NOTED ON THE PLAN. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD
- 5. IN CASE OF ANY ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 5474 OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF INDUSTRIAL SAFETY.
- 6. CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND LOCATIONS 72 HOURS BEFORE DIG (800-422-4133).
- 7. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT 48-HRS PRIOR TO TIME OF CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS REFERRED TO SECTION 7-10.3 OF THE STANDARD SPECS.
- 8. THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS WHICH DURING HIS OPERATIONS HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED. REMEWAL OF PAVEMENT STRIPING AND MARKINGS SHALL BE DONE IN CONFORMANCE WITH SECTION 310-5.6 OF THE STANDARD SPECIFICATIONS.
- 9. ALL SENER MAINS SHALL BE BELL AND SPIGOT EXTRA-STRENGTH VITHIFIED CLAY PIPE (V.C.P.) UNLESS OTHERWISE MOTED ON THE PLAN.
- 10. FRIOR IQ STARTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING SEWER MAIN(S) AND POTIFY THE DESIGN ENGINEER OF ANY VARIATION FROM DESIGN.
- 11. CONSTRUCTION SHALL NOT BEGIN ON FACILITIES TO BE OWNED BY COMMO UNTIL AFTER THE ISSUANCE OF A PERMIT BY COMMO TO ALLOW THE CONSTRUCTION AND ALSO AFTER A PRE-CONSTRUCTION CONFERENCE TO BE HELD AT LEAST ONE WEEK PRIOR TO BECINNING CONSTRUCTION. IN ADDITION. COMMO SHALL BE NOTIFIED A MINIMUM OF 48-MRS. PRIOR TO ANY CONSTRUCTION ON THE VICENSTY OF THE TRUNK SEWER OR ANY FACILITIES OWNED BY COMMO.
- 12. ALL TRENCHING AND/OR SHORING SHALL WEET REQUIREMENTS OF CAL-OSHA.
- 13. THE CONTRACTOR SHALL SUBMIT COPIES OF HIS DEPARTMENT OF INDUSTRIAL SAFETY PERMIT TO COMMO AND TO CITY OF CHING AND SAN BERNARDING COUNTY.
- 14. SHOP DRAWINGS AS REQUIRED BY THE PERMIT SHALL BE APPROVED BY COMMO PRIOR TO BEGINNING OF THE INSTALLATION OF THE FLUME.



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	<u> </u>	MUNICIPAL	WATER	· · · · · · · · · · · · · · · · · · ·

CITY OF CHIND ENGINEERING DIVISION

APPKOVED BY

CHECKED BY : HN 12.05.40

Joseph J. Schenk. DEPUTY CITY ENGINEER POR 24039

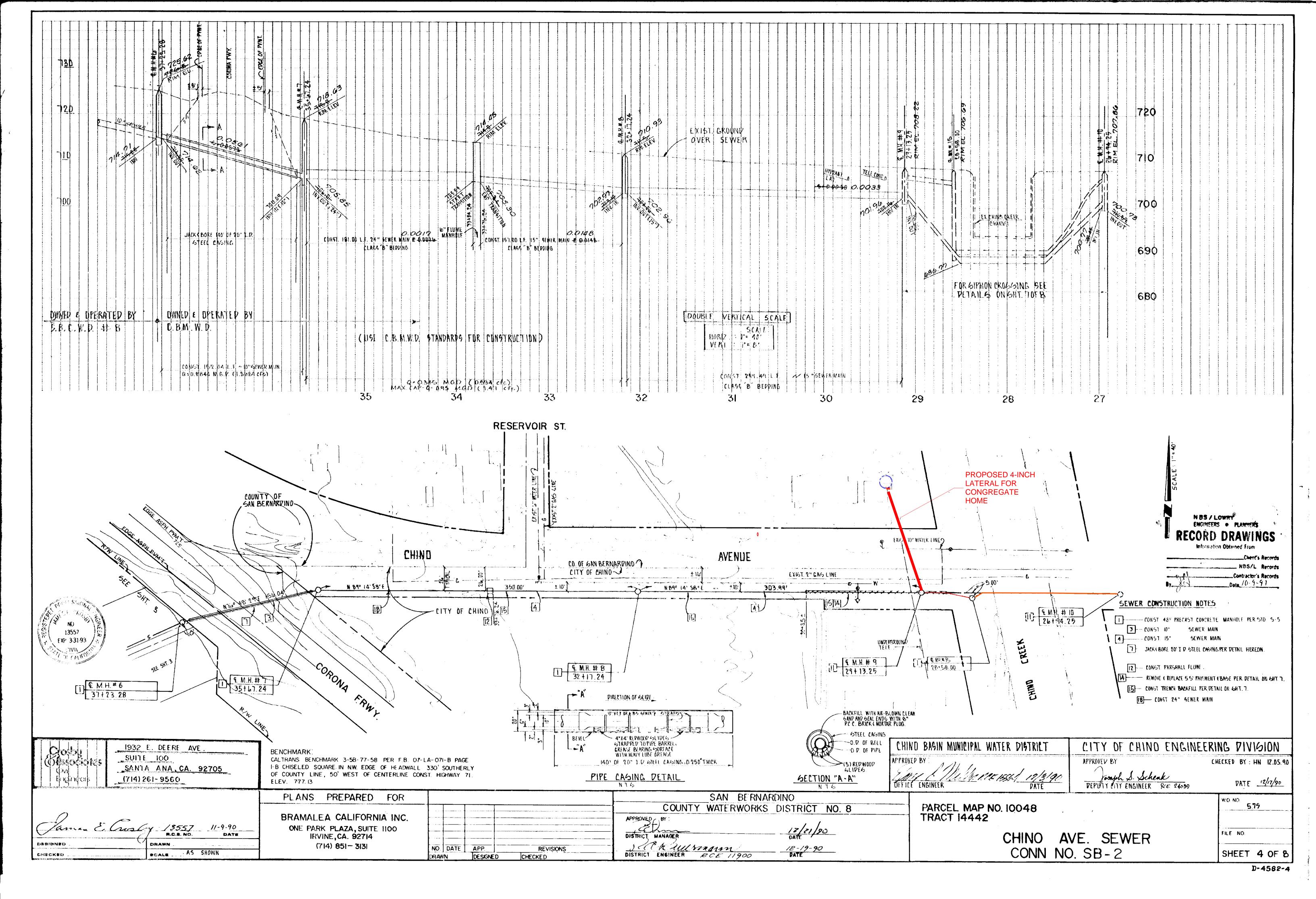
DATE 12/17/90

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PARCEL MAP NO. 10048 GENERAL NOTES, CONSTRUCTION NOTES
AND ESTIMATE OF QUANTITIES
CHINO AVE. SEWER

•				
FILE NO)			
SHEET	1	OF	ę	

CAD 42 D.4582-1



SEWER STUDY

FOR

CONGREGATE HOME SEWER CONNECTION

PROJECT LOCATION

3408 CHINO AVE. CHINO, CALIFORNIA 91710.

DEVELOPER

Steven Martinson

PREPARED BY

Mauricio Lopez P.E ML Engineering, Upland, CA



PREPARATION DATE

Nov 22nd 2022

TABLE OF CONTENTS

TITLE	PAGE
Introduction	1
Purpose	1
Analysis Criteria	1
Capacity Study	1
Results	1-2

LIST OF ATTACHMENTS

ATTACHMENT A - Sewer Study Area Exhibit

ATTACHMENT B - Supporting Calculations

INTRODUCTION

This sewer study has been prepared for the proposed sewer connection of the existing Congregate Housing Facility located north of Chino Avenue and east of the 71 Freeway in the incorporated portion of City of Chino, within the sphere of influence of the City of Chino. The project is planned to be a Congregate Housing Facility. The site is approximately 0.48 acres and is surrounded by low density housing. The proposed facility is planned to provide approximately 15 senior Bedridden Patients.

PURPOSE

As part of our proposed project, we have been asked to size the sewer connection for the sewer proposed Bedridden Senior Congregate Facility.

ANALYSIS CRITERIA

The analysis criteria used for the study is as follows:

Residential 20inhabitantsX65gal/Day = 1300Gal/day

Peaking Factor 2.8

12-inch and smaller diameter pipes $D/d \le 0.5$

Minimum Velocity 0.25 fps

Maximum Velocity 6 fps

Manning's Coefficient 0.015

CAPACITY STUDY

Based on the above design criteria the tributary area will generate a peak sewer flow of approximately 3,640 gallons per day or 0.042 gallons per second.

The Congregate Housing Facility will generate a peak sewer flow of approximately 3,640 gallons per day or 0.042 gallons per second (gps).

See attachment B for the sewer generation calculation and capacity analysis.

RESULTS

Based on the results of the sewer generation calculation and capacity analysis, the tributary sewer generation area results in a peak flow of approximately 3,640 gpd or 0.042

gps of peak flow. The peak flow passing through the proposed 4-inch sewer connection in the Congregate House.

At 1% slope results in a D/d of 0.333 and peak velocity of 0.267 feet per second which are both acceptable for sewer main design of pipe diameters less than 12 inches in diameter.

The Congregate Housing Facility & the Rental House will be only facilities that utilizes the proposed sewer. Based on analysis results the facility results in a peak flow of approximately 3,640 gallons per day or 0.04 gallons per second. The peak flow passing through the proposed sewer connection 4" diameter in Congregate House at 2.5 % slope results in a D/d of 0.333 and peak velocity of 0.267 feet per second which are both acceptable for sewer main design of pipe diameters less than 12 inches in diameter.

Based on the analysis a 4-inch sewer main would be sufficient to provide service to the proposed Congregate Housing Facility.

ATTACHMENT B

General Location for Connection C-46

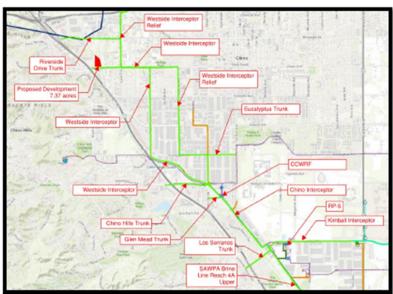
Max Flow based on use

ADWF=.0.0012 MGD

System Peaking for IEUA's Hydraulic Modeling IEUA Peaking Factor

PDWF=0.0039 MGD PWWF=0.0055 MGD 0.0055 MGD





ACTION ITEM

1D



Date: February 23, 2023

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Chino to Change the Approved Connection Point to the Western

Interceptor Relief Sewer (Chino Regional Sewer Connection C-03D) Project Number

EN000000146

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Chino for one new revised connection point to the Western interceptor relief sewer (Chino Regional Sewer Connection C-03D).

BACKGROUND

During construction of the approved City of Chino Regional Sewer Connection C-03D (June 10, 2022), the Contractor (MNR Construction) potholed the existing utilities within the updated alignment of Ramona Avenue and found conflicts with a large reinforced concrete storm drain, which was determined to be deeper than previously expected. As a result, the City of Chino is requesting a revised regional point of connection to IEUA's west side interceptor relief sewer (33-inch trunk sewer), at Station 101+34 (Attachment A). The updated connection point will be located about 700 feet south of the previous connection point (intersection of Ramona Avenue and Schaefer Avenue), at Station 108+15, to allow the lateral to get around the conflicting storm drain. The revised tributary area map is shown in Attachment B. Flows as well as capacity analysis will remain the same.

SUMMARY OF FLOW RATES UTILIZED FOR C-03D AND REVISED C-03C:

Proposed Chino Regional Connection C-03D:

Average Flow Rate (ADF) =0.97 MGD (673.61 gpm)

Peak Dry Weather Flow (PDWF) Rate IEUA Formula = 1.85MGD (1,282.98 gpm)

Peak Wet Weather Flow (PWWF) Rate IEUA Formula = 2.43 MGD (1,688.65 gpm)

Revised Regional Connection (Existing) C-03C:

ADF = 1.8 MGD (1,250.00 gpm)

Peak Dry Weather Flow (PDWF) Rate IEUA Formula = 3.26 (2,265.91 gpm)

Peak Wet Weather Flow (PWWF) Rate IEUA Formula = 4.27 MGD (2,963.98 gpm)

The 33-inch western interceptor relief sewer is designed to deliver a maximum flow rate of 54 MGD to the Carbon Canyon Water Recycling Facility. The proposed additional flow results in an average flow rate of 13.54 MGD, which is within the remaining pipeline capacity of 40.46 MGD. The depth of flow will range from 0.34 to 0.45 between C-03D and C-03C. This hydraulic analysis indicates that the proposed connection will not create a capacity deficiency within the Western Interceptor Relief Sewer.

ATTACHMENT "A"

February 1, 2023, Revised City of Chino Regional Interceptor Request

EUNICE M. ULLOA

Mayor

MARC LUCIO



KAREN C. COMSTOCK CHRISTOPHER FLORES WALT POCOCK

Council Members

ANTHONY ARROYO

Interim City Manager

February 1, 2023

Mr. Matthew Poeske Senior Engineer Inland Empire Utility Agency 6075 Kimball Avenue Chino, CA 91710

Subject: Request for New/Updated Sewer Connection to the 33-inch Ramona Avenue Trunk Sewer

(West Side Interceptor Relief Sewer) - Update of June 2022 Connection Point

Dear Mr. Poeske,

The City of Chino is hereby requesting a new Regional Point of Connection to IEUA's West Side Interceptor Relief Sewer (33-inch trunk sewer). This proposed connection is an **update** of the proposed connection **previously-approved by IEUA** in June of last year (2022). The updated connection point will be located about 800 feet south of the previous connection point (intersection of Ramona Avenue and Schaefer Avenue). The City's project is <u>currently in construction</u>, and the Contractor (MNR Construction) conducted potholing of utilities within the updated alignment of Ramona Avenue. The updated connection point will avoid conflicts with a large RCP storm drain, which was determined to be deeper than previously expected.

The updated connection is shown on **Attachment #4**, and will be designated as **Outfall #C03D**. At this location, the City is proposing to connect an 18-inch VCP sewer to the existing 33-inch IEUA VCP trunk sewer on the east side of Ramona Ave. The proposed 18-inch VCP sewer will replace the existing 10-inch City sewer main in Ramona Avenue and will discharge into the upper portion of the 33-inch trunk sewer. According to **Attachment #4** (Sheet 10 of IEUA Record Drawing **#D4587**), the proposed connection point will be located about 100 feet south of the existing manhole at Station 101+34 on Profile (Station 55+50 on Plan).

Background (from June 2022 Letter)

According to <u>Sheet 3</u> of IEUA Record Drawing **#D4638**, the <u>existing</u> connection point for the local tributary area (see **Exhibits A & C** of **Attachment #1**) is located in Eucalyptus Avenue, just west of Monte Vista Avenue. This existing connection point is designated as **Outfall #C03C** per **Attachment #3**. At this connection point, the IEUA trunk sewer is 33-inch VCP. The estimated ultimate (future) average daily flow at the connection point in Eucalyptus Avenue is <u>2.8 MGD</u>. This flow was calculated based on the City's 1993 Sewer Master Plan and a recent 2020 Sewer Study (see **Attachment #1**) for this project. The <u>differential</u> flow to the <u>existing</u> **#C03C** connection (downstream of the <u>proposed</u> **#C03D** connection) would be <u>1.8 MGD</u>, once the <u>proposed</u> **#C03D** connection is constructed. The differential flow is shown in red in **Exhibits A & C** of **Attachment #1**.

The flow monitoring results, shown in **Exhibit E** of **Attachment #1**, indicate that actual flows are less than the estimated (calculated) flows described above (i.e. 1.8 MGD). Nevertheless, the City is <u>in need</u> of the <u>proposed</u> **#C03D** connection to alleviate ultimate (future) capacity issues in its sewer system in Yorba Avenue (upstream of the existing **#C03C** connection in Eucalyptus Avenue).



City of Chino
Request for <u>Updated</u> Sewer Connection to the 33-inch Ramona Avenue Trunk Sewer (West Side Interceptor Relief Sewer)
February 1, 2023
Page 2

The <u>proposed</u> **#C03D** connection will divert a <u>portion</u> of the overall flows which would otherwise be discharged further downstream (into the <u>existing</u> **#C03C** connection). This flow is shown in <u>blue</u> in **Exhibits A & C** of **Attachment #1**. In other words, <u>no new flows</u> will be added to the Westside Interceptor system. Only a <u>split</u> of where the flows will be diverted is being proposed. The estimated average daily flows at the <u>proposed</u> **#C03D** connection point is <u>1.05 MGD</u> (or <u>0.52 MGD</u> based on the measured flows shown in **Exhibit E**). The remaining flows collected within the local sewer tributary area will discharge into the existing **#C03C** connection in Eucalyptus Avenue (same as existing conditions).

Based on <u>Sheets 6 to 10</u> of IEUA Record Drawing **#D4587**, there do <u>not</u> appear to be any connection points to the West Side Interceptor Relief Sewer system upstream of the <u>existing</u> **#C03C** connection in Eucalyptus Avenue. Therefore, by adding a <u>proposed</u> **#C03D** connection and <u>splitting</u> the flows at Ramona Avenue, this project will <u>not</u> change the overall flow characteristics of IEUA's West Side Interceptor Relief Sewer system.

Conclusion

In summary, the proposed connection point to the existing 33-inch VCP trunk sewer in Ramona Avenue (West Side Interceptor Relief Sewer) is needed due to constructability issues with existing crossing utilities in Yorba Avenue upstream of the existing #C03C connection, and to alleviate ultimate (future) capacity issues. Since the proposed connection will only result in a split of where the flows will be diverted, and will not add any new flows into IEUA's West Side Interceptor Relief Sewer system, the City requests that permission be granted from IEUA to construct the proposed connection at the at Ramona Avenue.

We request that IEUA review this letter and the following attachments:

- Attachment 1: Exhibits A to E of Sewer Area Study (Exhibits A and C are Modified for this Letter)
- Attachment 2: Area Sewers & Invert Elevations
- Attachment 3: City of Chino Outfalls to IEUA
- Attachment 4: Proposed Connection to IEUA West Side Interceptor

We request that tentative approval be provided to the City as soon as possible.

Sincerely,

Phillip West, P.E., QSD/QSP

Design Consultant for

City of Chino

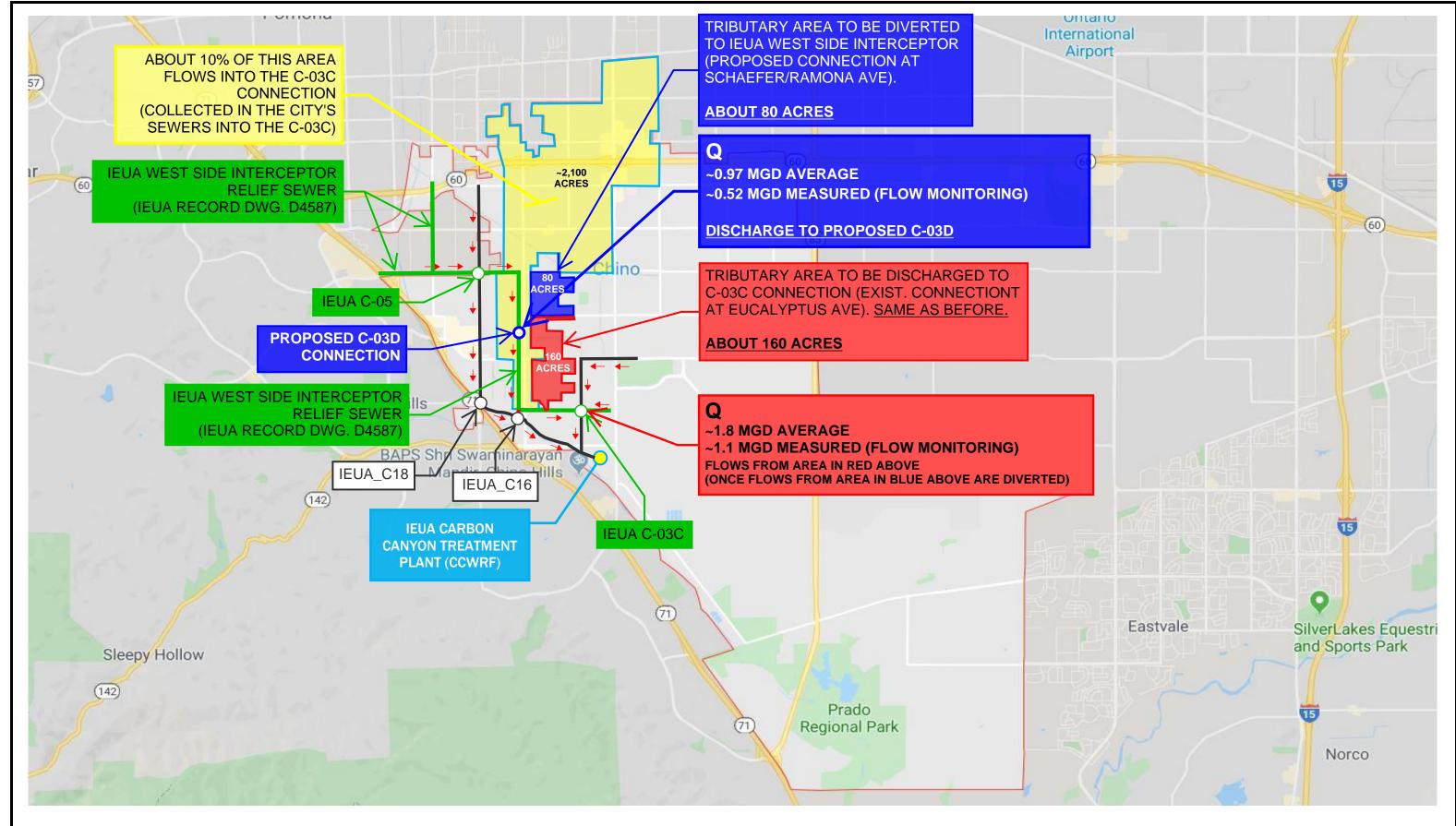
Public Works Department

13220 Central Avenue

Chino CA 91710

philw@westaeng.com

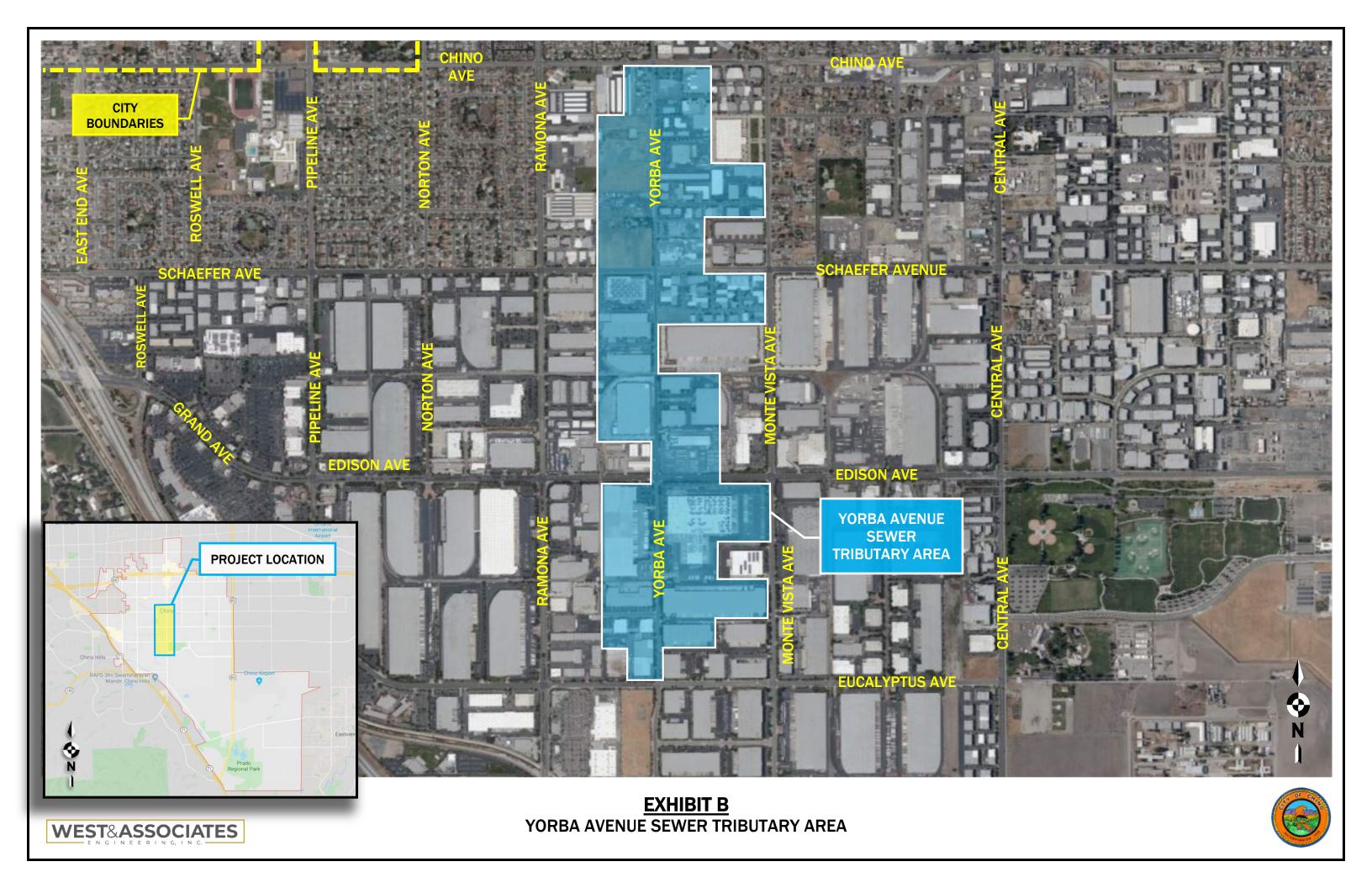


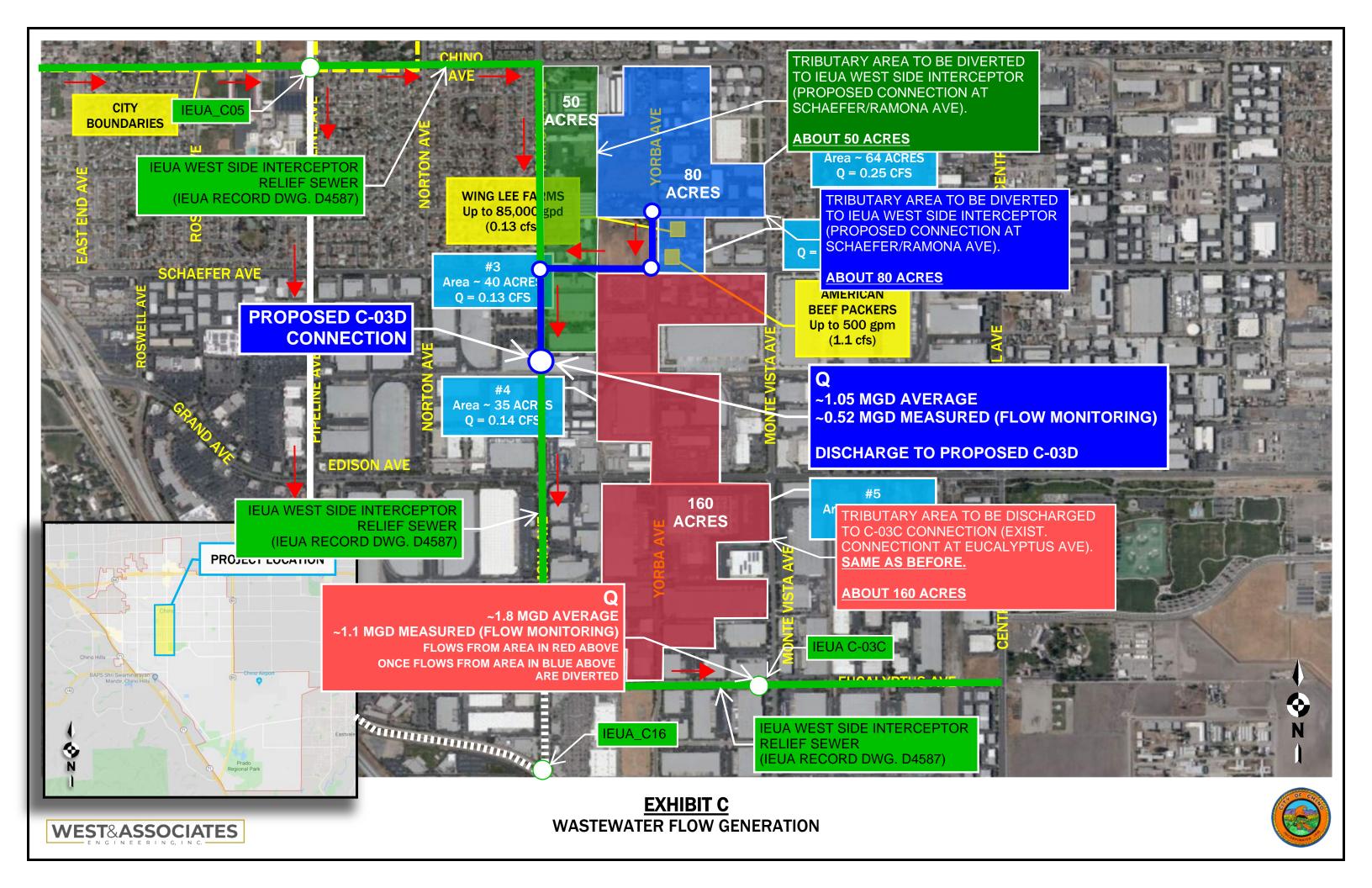


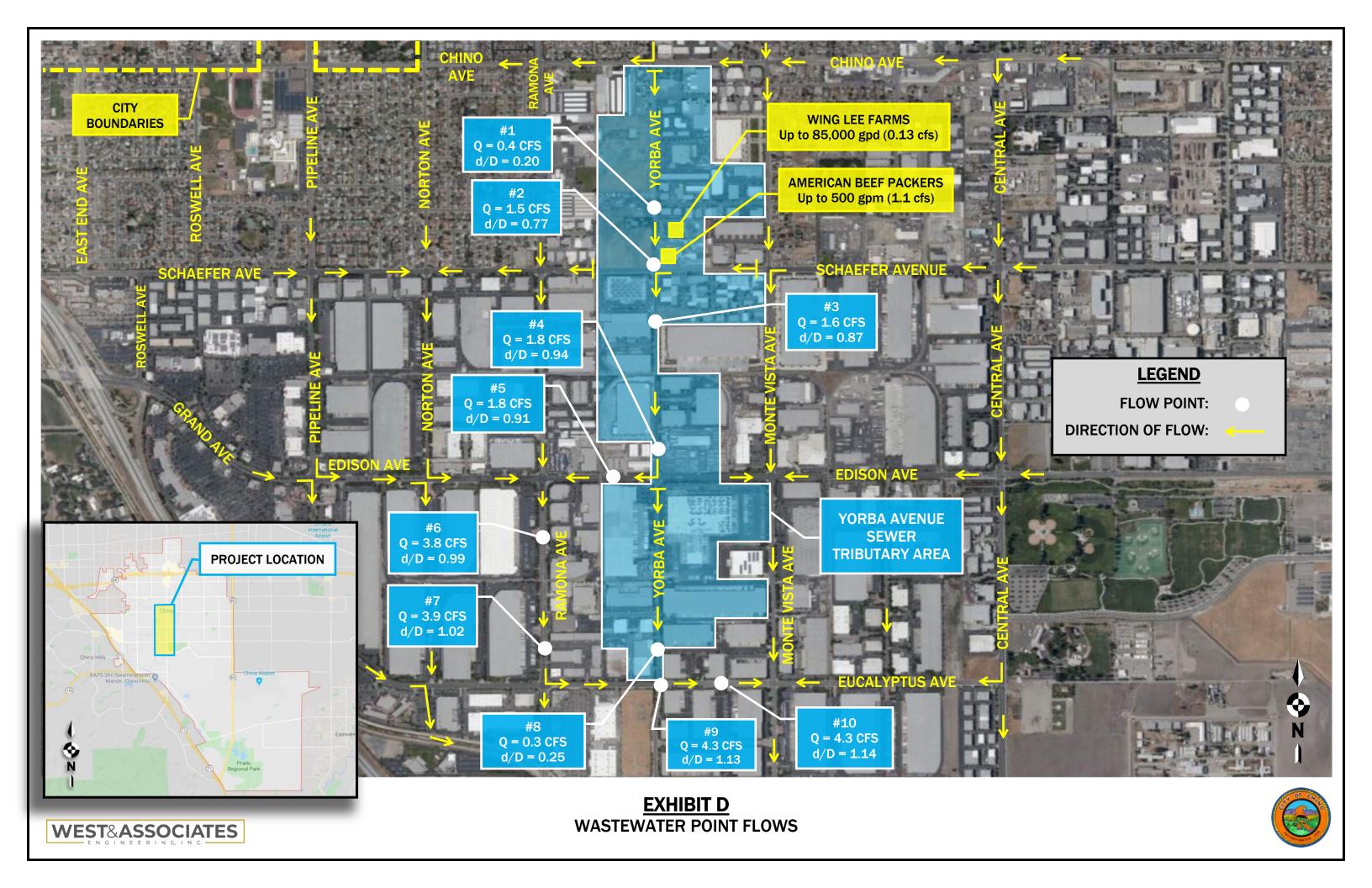


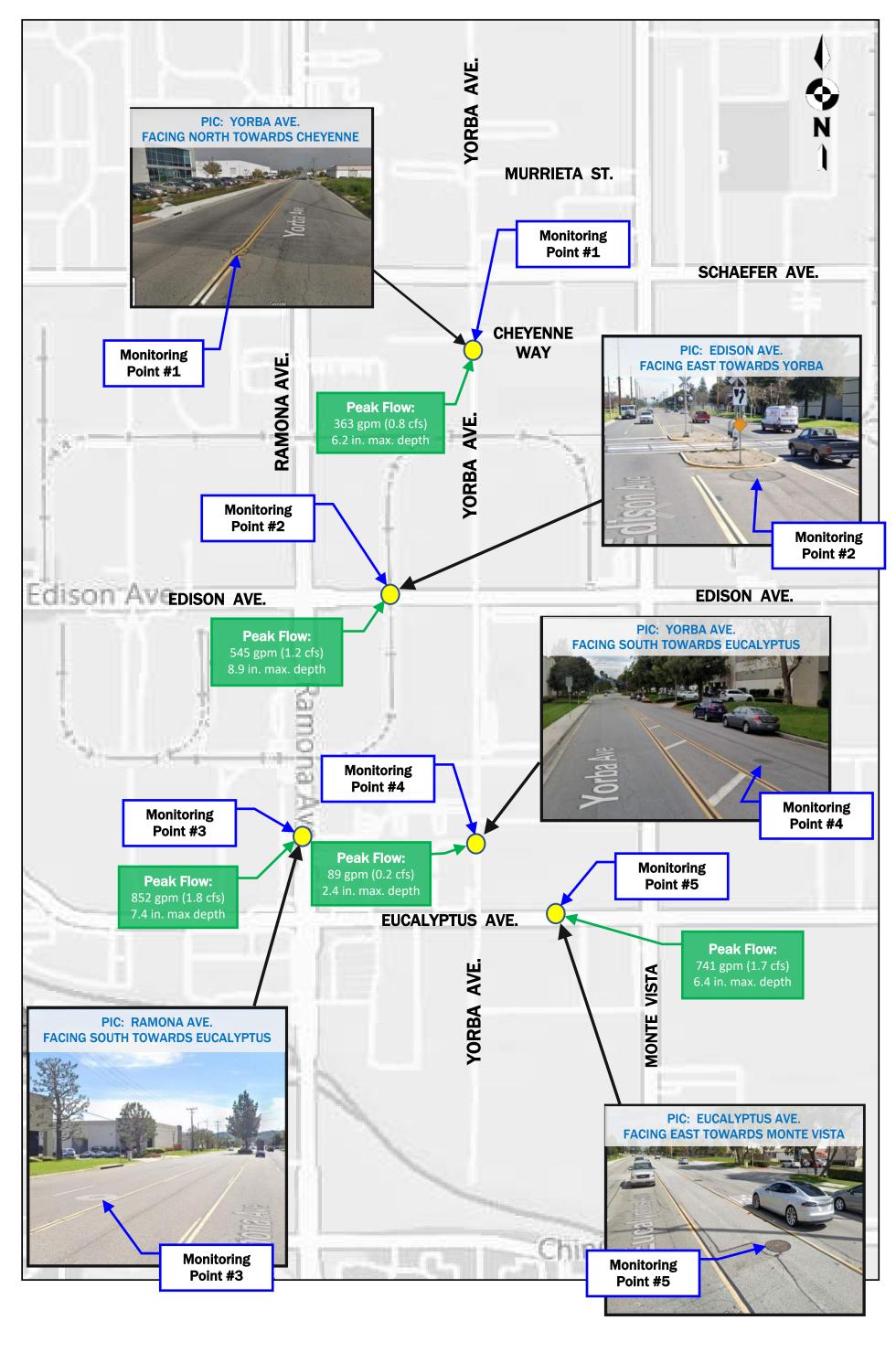














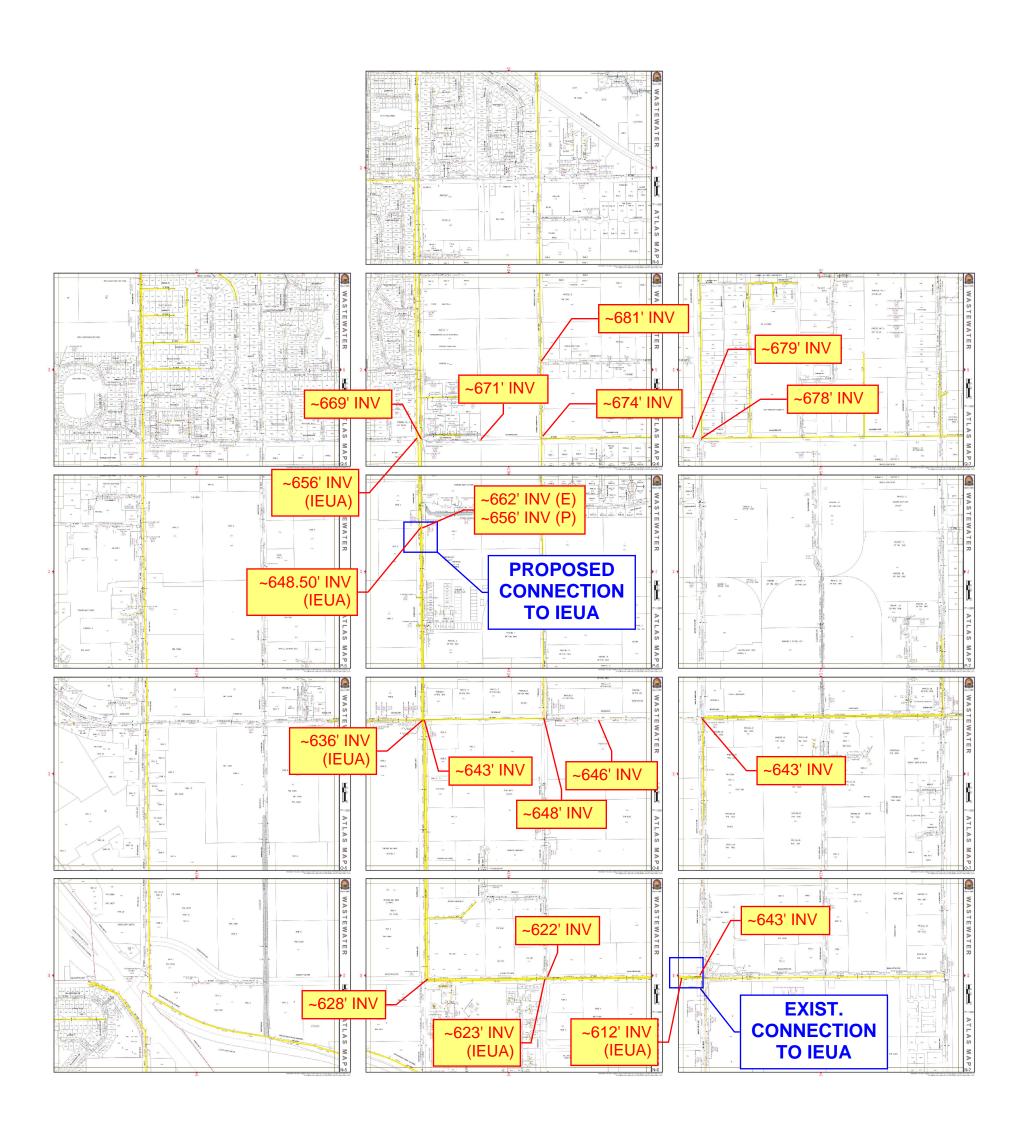
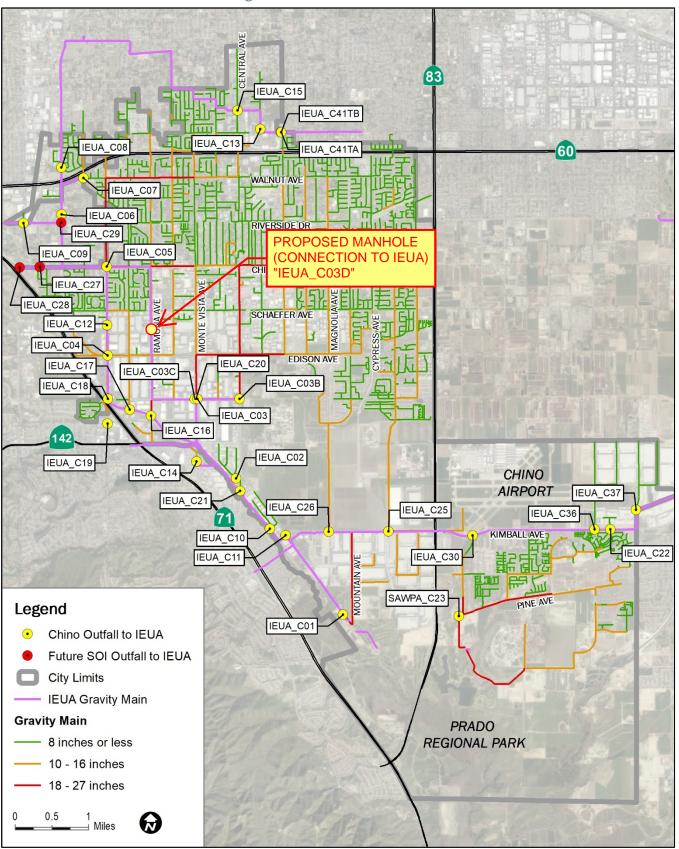
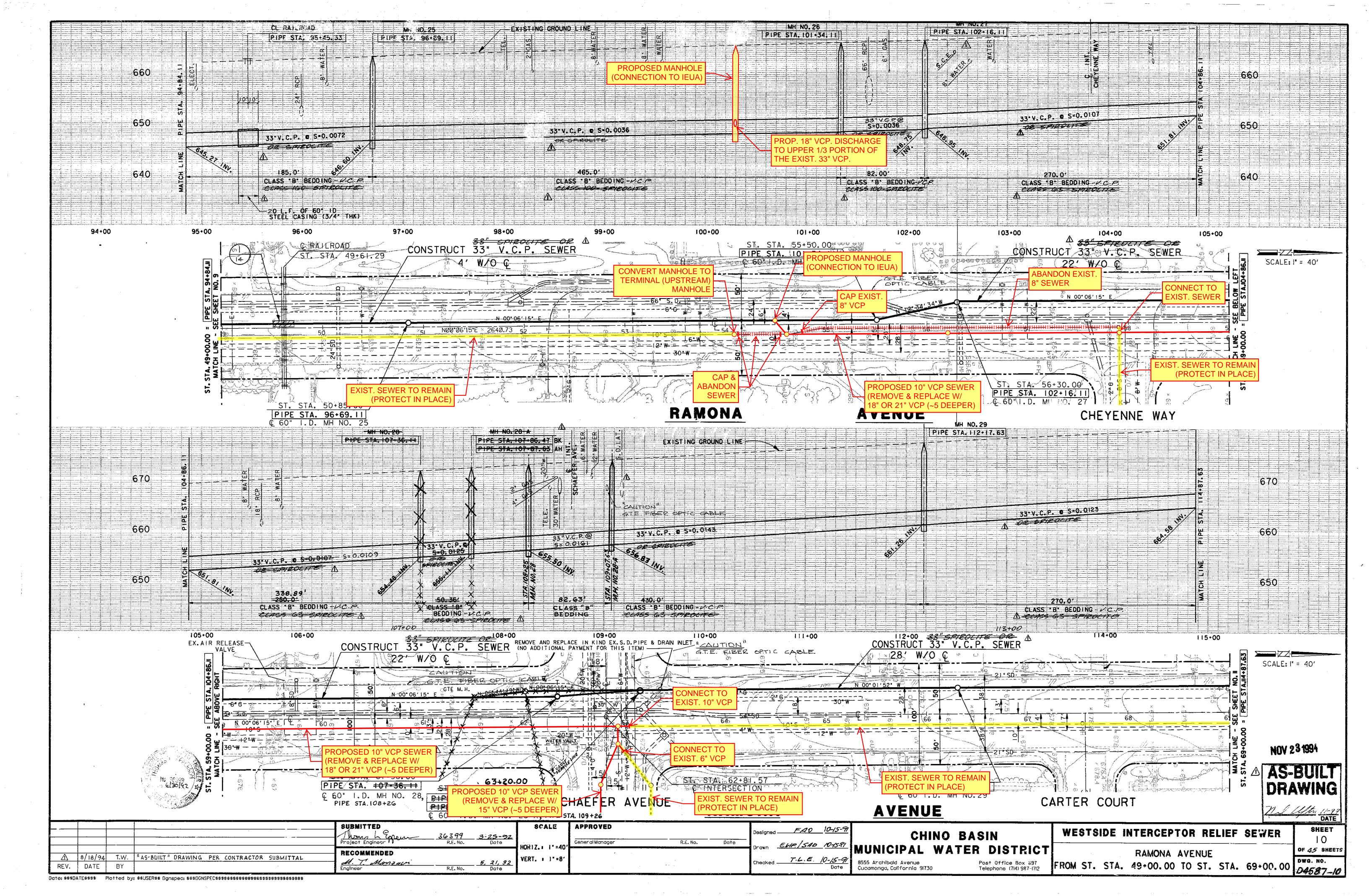


Figure 2.8: IEUA Outfall Locations





ATTACHMENT "B"Sewer Tributary Areas



ACTION ITEM

1E



Date: February 23, 2023

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Fontana for a Regional Connection Point to the Fontana Interceptor

Relief Sewer (Fontana Regional Sewer Connection # F-36, Project EN0000000166)

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Fontana for a single new connection point to the Fontana Interceptor Relief Sewer (Regional Sewer Connection # F-36).

BACKGROUND

On October 20, 2022, the Inland Empire Utilities Agency (IEUA) received a request from the City of Fontana (Attachment "A"), for the approval of a new regional connection to the Fontana interceptor relief sewer at Station 11+50.36 through an existing 72" manhole, located on the south side of this tributary area, to the existing 42-inch Fontana interceptor relief sewer.

The connection point is required to serve a 5.16 acre (net) tributary area with an initial 103,333 square foot industrial warehouse and office building. The proposed tributary area is located north of Jurupa Avenue, south of Rose Avenue, east of Calabash Avenue and west of Ponderosa Avenue. The vicinity map is provided (Attachment "B").

Average dry and peak wet/dry weather flows were provided by the City of Fontana. IEUA utilized peak dry and wet weather flows developed using IEUA's peaking factors, since they were more conservative:

SUMMARY OF FLOW RATES UTILIZED

Fontana Regional Connection F-36 Average Dry Weather Flow (ADWF) Rate =0.000896 MGD Peak Dry Weather Flow (PDWF) Rate = 0.002985MGD Peak Wet Weather Flow (PWWF) Rate =0.004212 MGD

The hydraulic model was used to evaluate the Fontana Interceptor Relief Sewer to the Cucamonga Trunk, then to Regional Water Recycled Plant No. 1 (RP-1) as shown in Attachment "B. The hydraulic analysis shows that the connections will not create a capacity deficiency within the noted collection system at buildout under PWWF. Currently, the Fontana interceptor relief has a peak depth to diameter ratio (d/D) of 0.25 and an average flowrate of 2.546 MGD. The full capacity of the 42-inch sewer line is 18.59 MGD. This leaves an available capacity of 16.04 MGD. The downstream Cucamonga Trunk Sewer has a depth to diameter ratio (d/D) of 0.33 and will not be impacted by the projected flows from the tributary area. Capacity to RP-1 is sufficient to meet the flows added by this development.

ATTACHMENT A

October 20, 2022, City of Fontana Regional Interceptor Request



City Council

Acquanetta Warren Mayor

Phillip W. Cothran Mayor Pro Tem

John B. Roberts
Council Member

Jesus "Jesse" Sandoval Council Member

> Peter A. Garcia Council Member

October 20, 2022

Matthew Poeske, Office Engineer Inland Empire Utility Agency 6075 Kimball Ave Chino, CA 91708

Subject: City of Fontana Regional Connection Request
Jurupa, Industrial Warehouse Building 1
13996 Jurupa Avenue, Tentative Parcel Map No. 20467, Lot 1

Dear Mr. Poeske,

On behalf of the Applicant, CP Logistics Jurupa, LLC, a Delaware limited liability company, this letter is a request to connect the proposed project (described in detail below) to the existing 42" RCP sewer main maintained and serviced by IEUA (per IEUA plan D-4573-8), located in the City of Fontana along Jurupa Avenue, approximately 611 linear feet east of Calabash Avenue (see attached vicinity map). There is currently no available City of Fontana maintained sewer that can feasibly be reached by this site.

The proposed project consists of the construction of an approximately 103,133 square foot industrial warehouse building on approximately 5.16 net acres located on Assessor's Parcel Numbers 0236-161-16 and 0236-161-17 (13996 Jurupa Avenue). Within the proposed approximately 103,133 square foot industrial warehouse building, a two-story office area totaling approximately 4,000 square feet is proposed. Within the office area, the anticipated generators of sewer discharge will consist of (2) men's and women's bathrooms, (2) an employee kitchen/break area, and (3) a janitor's closet. The anticipated sewer flows (average/peak gpd/gpm/mgd) is enclosed within the stamped Sewer Analysis prepared by the Applicant's plumbing engineer/contractor, Wallace P. Johnson Plumbing and Heating, Inc., provided herewith.

For the proposed connection to the 42" RCP IEUA sewer main specifically, the Applicant plans to connect at STA. 11+50.36 into the existing manhole no. 64R of IEUA plan D-4573-8. These details regarding the specific sewer connection are depicted on a Sewer Improvement Plan prepared by Thienes Engineering, Inc. provided herewith.

If you have any questions or need additional information, please do not hesitate to contact me at (909) 350-6552 or ejgomez@fontana.org.

Thank you,

Esmeralda Gomez Associate Engineer

Imeralla Somy



896 gpd x peaking factor of 2.5 = 2240 gpd

SEWER GPD'S, FLOW RATES AND PEAKING FACTORS BASED ON 2019 CPC CHAPTER 4 TABLE A OCCUPANT LOAD FACTOR: [BSC, DSA-SS & DSA-SS/CC] AND TABLE H 201.1(4) ESTIMATED WASTE / SEWAGE FLOW RATES

Project Description & Location:

The proposed project (13996 Jurupa Avenue) consists of an approximately 103,133 square foot speculative industrial warehouse building on two (2) contiguous parcels totaling approximately 5.16 net acres located on the north side of Jurupa Avenue between Calabash Drive to the west and Buena Vista Drive to the east. This project site area consists of the following APNs:0236-161-16 and 0236-161-17. The proposed 103,133 SF building will consist of approximately 99,133 SF of warehouse area and approximately 4,000 SF of speculative office area. Within the office area, the anticipated generators of sewer discharge will consist of (2) men's & women's bathrooms, (2) an employee kitchen/break area, and (3) a janitor's closet. Enclosed below is a summary of the anticipated sewer demand/peak flow for the project, and the associated calculation methods thereto. This project intends to tie into the existing IEUA-controlled 42" sewer main south of the Jurupa Avenue centerline.

_	JOB SITE: Jurupa Bldg. 1, Fontana											
BUILDING AREA (ft ²)		BLDG.1	GPD	BLDG.2	GPD	BLDG.3	GPD	BLDG.4	GPD	BLDG.5	GPD	BLDG.6
OFFICE 1ST FLOOR		2317	231.7	0	0	0	0	0	0	0	0	0
OFFICE 2ND FLOOR		1683	168.3	0	0	0	0	0	0	0	0	0
WAREHOUSE		99133	496	0	0	0	0	0	0	0	0	0
TOTAL=		103133	896	0	0	0	0	0	0	0	0	0
Land use	Contributing Unit Type	Enter Flow (gpd/Unit)	Flow Duration (hrs)	Peak Factor		Enter No. of Units	Avg. Flow (gpd)	Avg. Flow (gpm)	Peak Flow (gpd)	Peak Flow (gpm)	Avg. Flow (MGD)	Peak Flow (MGD)
Heavy & Light Industrial, Manufacturing, Warehouses	Building 1	896	24	2.5		1.00	896	0.62	2,240	1.56	0.000896	0.002240
Heavy & Light Industrial, Manufacturing, Warehouses	Building 2	0	24	2.5		1.00	0	0.00	0	0.00	0.00	0.00
Heavy & Light Industrial, Manufacturing, Warehouses	Building 3	0	24	2.5		1.00	0	0.00	0	0.00	0.00	0.00
Heavy & Light Industrial, Manufacturing, Warehouses	Building 4	0	24	2.5		1.00	0	0.00	0	0.00	0.00	0.00
Heavy & Light Industrial, Manufacturing, Warehouses	Building 5	0	24	3		1.00	0	0.00	0	0.00	0.00	0.00
Qmax=PFmax X C	lavg	Where	Qmax=ma:	ximum flowrate	e	Sub-totals:	896	1	2,240	2	0.000896	0.002240
			PFmax=ma	ximum peakin	g factor					•		
			Qavg=aver	age flowrate		Grand Totals:	896	0.62	2,240.00	1.56	0.000896	0.002240
			Qavg=aver	age nowrate		Gianu iotals:						
Average gpd flow	CDC T-1-11 201	1/4\ Off:			Fixtures		DFU's	Quantity	Totals	GPM	GPD	MGD
BSC, DSA-SS & DSA-SS/CC & CPC Table H 201.1(4) Offices Every 200 sf = 1 employee with gpd of 20					Water Clos		4	5	20 12			
, , , ,				Lavatories		2						
4000 sf / 200 = 20 employees x 20 gpd = 400 gpd					Urinals		2					
DCC DCA CC 0 DCA CC/CC 0 CDC T 11 11 204 4/4) 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Bar Sinks		2						
BSC, DSA-SS & DSA-SS/CC & CPC Table H 201.1(4) Factories no showers				Drinking F		1	1					
Every 5000 sf = 1 employee with gpd of 25				Mop Sinks	i	3	1			150	443	
99133 sf / 5000 = 19.8 employees x 25 gpd = 496 gpd Peak gpd flow									40	20	150	112
000 and to analyze factor of 2.5 - 2240 and												



GENERAL NOTES FOR SEWER IMPROVEMENT PLANS

- I. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY OF FONTANA STANDARD PLANS, THE CONTRACT PROVISIONS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK"). ALL REFERENCE SPECIFICATIONS AND STANDARDS SHALL BE THE LATEST EDITION UNLESS OTHERWISE NOTED.
- 2. WHEN A TECHNICAL CONFLICT IS FOUND TO EXIST IN THE CONTRACT DOCUMENTS THAT CAN NOT BE RESOLVED BY REFERENCE TO PRECEDENCE PROVISIONS IN THE "GREEN BOOK", THE CONTRACTOR SHALL IMMEDIATELY REPORT SAID CONFLICT TO THE CITY ENGINEER FOR RESOLUTION.
- ALL MATERIALS AND METHODS ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
- CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CITY OF FONTANA COMMUNITY DEVELOPMENT DEPARTMENT, ENGINEERING DIVISION PRIOR TO THE START OF ANY WORK. INSPECTION COORDINATION SHALL BE REQUESTED AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY WORK IN PUBLIC RIGHT-OF-WAY WITHIN THE CITY LIMITS. CALL (909)
- 5. THE CONTRACTOR SHALL CONFORM TO ALL TRAFFIC CONTROL POLICIES, METHODS AND PROCEDURES DESCRIBED IN THE STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS, LATEST NON-METRIC EDITION UNLESS OTHERWISE DIRECTED BY THE
- 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN BARRICADES, DELINEATORS OR OTHER TRAFFIC CONTROL DEVICES AT ALL TIMES.
- 7. THE CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM EXCAVATION OR TRENCH WORK FOR TRENCHES 5 FEET OR GREATER IN DEPTH FROM THE CALIFORNIA STATE DIVISION OF INDUSTRIAL SAFETY.
- 8. THE WALLS AND FACES OF ALL EXCAVATIONS GREATER THAN FIVE (5) FEET IN DEPTH SHALL BE GUARDED BY SHORING, SLOPING OF THE GROUND OR OTHER APPROVED MEANS PURSUANT TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. TRENCHES LESS THAN FIVE (5) FEET SHALL ALSO BE GUARDED WHEN THE POTENTIAL EXISTS FOR GROUND MOVEMENT.
- 9. NO MATERIAL OR EQUIPMENT SHALL BE STORED IN THE PUBLIC RIGHT OF WAY WITHOUT OBTAINING A SEPARATE PERMIT FOR
- 10. THE LOCATIONS OF UTILITIES SHOWN HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION, HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE, IN THE FIELD, THE TRUE LOCATION AND ELEVATION OF ANY EXISTING UTILITIES, AND TO EXERCISE PROPER PRECAUTION TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 1-800-227-2600 TWO WORKING DAYS BEFORE EXCAVATION.
- 11. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL UTILITY COMPANIES INCLUDING, BUT NOT LIMITED TO, GAS TELEPHONE, ELECTRIC, CABLE TELEVISION, LANDSCAPING, LANDSCAPE IRRIGATION, DOMESTIC WATER, RECLAIMED WATER, SEWER, STORM DRAIN, FLOOD CONTROL AND CALTRANS. ALL UTILITY COMPANIES SHALL BE GIVEN TWO WORKING DAYS NOTICE PRIOR TO WORK AROUND THEIR FACILITIES.
- 12. THE CONTRACTOR SHALL NOT OPERATE ANY FIRE HYDRANT OR WATER MAIN VALVES WITHOUT APPROPRIATE AGENCY AUTHORIZATION. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE WATER COMPANY FOR VALVE OPERATION AND WATER REQUIREMENTS.
- 13. STATIONING REFERS TO THE CENTERLINE OF SEWER EXCEPT WHERE OTHERWISE NOTED. 14. ADEQUATE CONSTRUCTION CONTROL STAKES SHALL BE SET BY THE ENGINEER TO ENABLE THE CONTRACTOR TO CONSTRUCT THE WORK TO THE PLAN GRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF BENCHMARKS AND
- CONSTRUCTION CONTROL STAKING DURING CONSTRUCTION. 15. THE CONTRACTOR SHALL NOT DISTURB EXISTING SURVEY MONUMENTS, MONUMENT TIES OR BENCH MARKS WITHOUT PRIOR
- NOTIFICATION TO THE CITY ENGINEER. 16. REMOVAL AND REPLACEMENT OF EXISTING SURVEY CONTROL, INCLUDING SURVEY MONUMENTS, MONUMENT TIES AND BENCH MARKS, SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR. SURVEY MONUMENTS THAT WILL BE DESTROYED AS A RESULT OF THIS CONSTRUCTION SHALL BE REPLACED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER ONE WEEK PRIOR TO CONSTRUCTION SO THAT TIES TO MONUMENTS CAN BE ESTABLISHED FOR LATER REPLACEMENT OF THE
- 17. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR LOCAL RESIDENTS AND BUSINESSES AT ALL TIMES. A MINIMUM 12 FOOT
- LANE SHALL BE MAINTAINED AT ALL TIMES IN THE CONSTRUCTION AREA FOR RESIDENTS AND EMERGENCY VEHICLES. 18. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFECTIVE MEANS OF DUST CONTROL, INCLUDING ADEQUATE WATERING,
- 19. THE CONTRACTOR SHALL NOT CAUSE ANY EXCAVATED MATERIAL, MUD, SILT OR DEBRIS TO BE DEPOSITED ONTO PUBLIC OR PRIVATE PROPERTY ADJACENT TO THE RIGHT OF WAY DURING CONSTRUCTION WITHOUT PRIOR WRITTEN APPROVAL.
- 20. NO TRENCH BACKFILL SHALL TAKE PLACE WITHOUT PRIOR APPROVAL OF THE CITY INSPECTOR.
- 21. A GEOTECHNICAL ENGINEER SHALL CERTIFY ALL BACKFILL COMPACTION. FAILURE TO OBTAIN THE REQUIRED DENSITY SHALL
- REQUIRE RE-WORKING OF THAT PORTION OF THE WORK UNTIL THE SPECIFIED DENSITY IS OBTAINED. 22. CARE SHOULD BE TAKEN TO PREVENT GRADES, DITCHES, AND SWALES FROM UNDERMINING STREET IMPROVEMENTS. UPON INSPECTION OF THE SITE, THE CITY ENGINEER MAY REQUIRE TEMPORARY NON-ERODEABLE SWALES ENTERING OR LEAVING
- 23. ALL EXPOSED CONCRETE SURFACES SHALL CONFORM IN GRADE, COLOR AND FINISH TO MATCH EXISTING CONCRETE 24. IF SEWER CONSTRUCTION IS TO BE DONE IN PHASES, THE CONTRACTOR SHALL PROVIDE A TERMINAL CLEANOUT AT THE PHASE BOUNDARY, NOT MORE THAN 150 FEET FROM THE DOWNSTREAM MANHOLE, SEE CITY OF FONTANA STANDARD DETAIL
- 25. SANITARY SEWER LINES SHALL BE CONSTRUCTED OF BELL AND SPIGOT OR BAND SEAL TYPE VITRIFIED CLAY PIPE (V.C.P.) EXTRA STRENGTH CLASS AND SHALL CONFORM TO THE PROVISIONS OF THE ASTM DESIGNATION C700 FOR V.C.P.
- 26. NO OPEN TRENCH SHALL BE ALLOWED AT THE END OF THE DAY WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER. 27. SHORT VCP STUBS WITH FLEXIBLE COMPRESSION JOINTS SHALL BE USED AT MANHOLE WALLS TO ALLOW FOR MINOR
- 28. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE EXISTING FACILITIES, AND VERIFY ELEVATION AND LOCATION OF
- CONNECTIONS. CITY APPROVAL OF CONNECTIONS TO EXISTING FACILITIES DOES NOT IMPLY CORRECTNESS OF ELEVATIONS OR LOCATIONS SHOWN ON THE PLANS. 29. ALL 4" HOUSE LATERALS SHALL BE INSTALLED AT A 2% MINIMUM GRADE UNLESS OTHERWISE APPROVED BY THE CITY
- ENGINEER. 30. TERMINATE ALL 4" HOUSE SEWER LATERALS 3 FEET INSIDE THE LOT WITH A PLUG 12" BELOW THE GROUND SURFACE.
- WHEN PUBLIC UTILITY EASEMENTS EXIST NEXT TO THE STREET RIGHT OF WAY, THE LATERAL SHALL TERMINATE 3 FEET INSIDE THE LOT AS MEASURED FROM THE UTILITY EASEMENT. 31. THE SEWER CONTRACTOR SHALL STAMP AN "S" IN THE FACE OF THE CURB AT THE LOCATION OF THE SEWER LATERAL.
- 32. IF EXISTING UTILITIES OR ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ALL AFFECTED AGENCIES IMMEDIATELY.
- 33. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND
- 34. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO PAVING OF STREETS. 35. APPROVED SOIL STERILANT IS REQUIRED UNDER ALL NEW ASPHALT PAVEMENT PRIOR TO PLACEMENT.
- 36. ALL MANHOLES, CLEANOUT FRAMES, COVERS AND VALVE BOXES SHALL BE RAISED TO FINISHED GRADE BY THE PAVING
- CONTRACTOR UPON COMPLETION OF PAVING. 37. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RESTORE ALL SIGNING, STRIPING, BARRICADES, AND OTHER
- TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER. 38. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER OF RECORD, WHO SHALL PROVIDE RECORD DRAWINGS TO THE CITY ENGINEER.

HOLD HARMLESS INDEMNIFICATION CLAUSE:

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

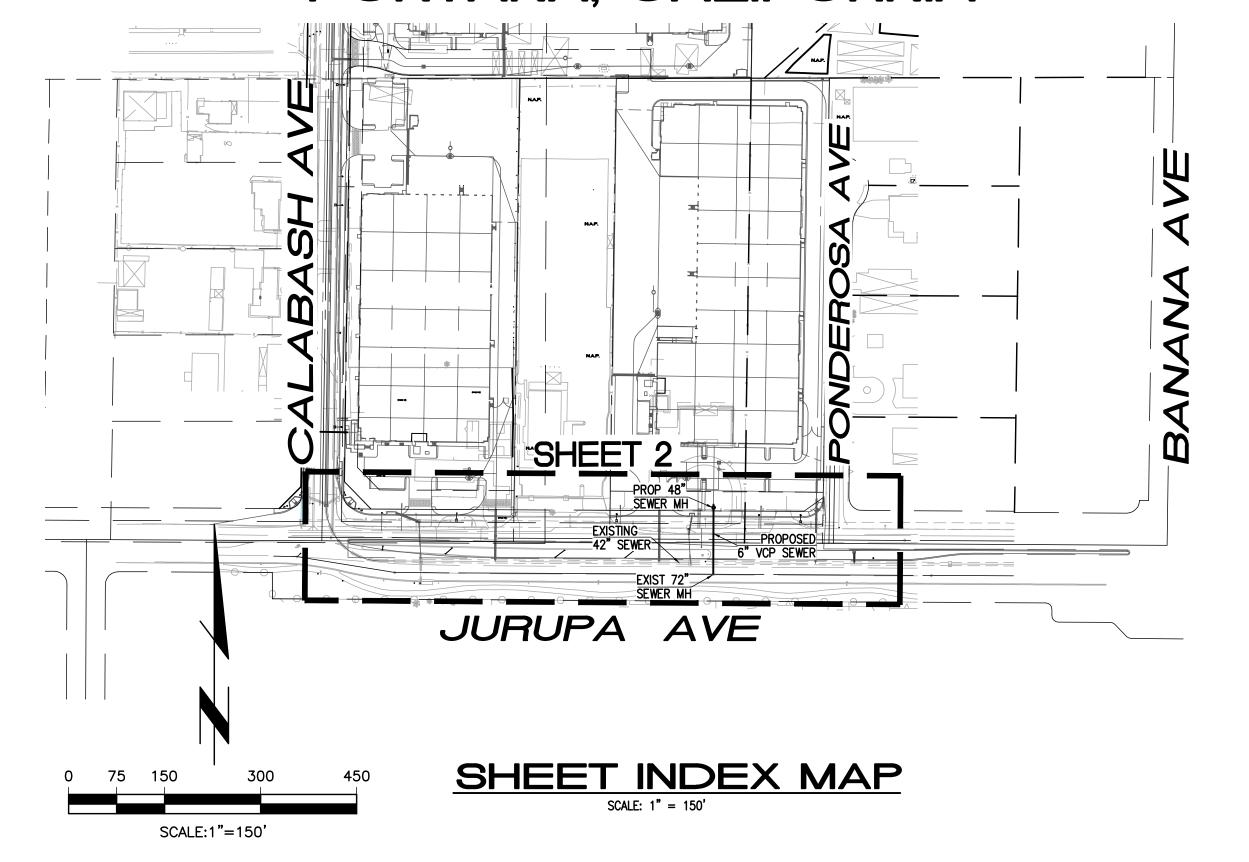
EXISTING UNDERGROUND STRUCTURES:

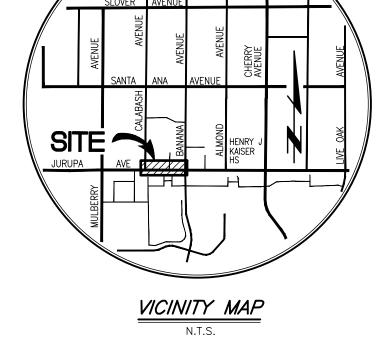
ALL UNDERGROUND UTILITIES OR STRUCTURE, REPORTED OR FOUND ON PUBLIC RECORDS, ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH THE IMPROVEMENTS HEREON, AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED OR INDICATED ON PUBLIC RECORDS, OR THOSE CONSTRUCTED AT VARIANCE WITH REPORTED ARE RECORD LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHERS FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

SEWER IMPROVEMENT PLANS

CALABASH AVENUE FONTANA, CALIFORNIA





1 EA

N/A

100 LF

1 EA

SHEET INDEX

TITLE	SHEET

2 6" SEWER PLAN AND PROFILE 3 | IEUA GENERAL NOTES AND DETAILS

SEWER CONSTRUCTION NOTES: QUANTITY:

- (1)—install 6" extra strength VCP sewer pipe with compression joints 100 LF CONSTRUCT 48" PRECAST CONCRETE SHALLOW MANHOLE PER S.P.P.W.C. 201-3, WITH FRAME AND COVER PER IEUA STANDARD C-MH-004. SEE DETAILS ON SHEET 3 1 EA
- (3)—RE-CHANNEL EXISTING 72" SEWER MANHOLE PER S.P.P.W.C. STD. PLAN NO. 208-3
- (4)—proposed 6" pvc sewer pipe per separate onsite plan
- 5 PIPE BEDDING DETAIL PER CITY OF FONTANA STD. 2009
- 6 Install sewer chimney per s.p.p.w.c. Std. Plan No. 220—4
- 7 Install 10" d.i.p. pipe encasement

UTILITY CONTACTS:

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION.

AT&T:	(510) 645-2929
CITY OF FONTANA:	(909) 350-7610
TIME WARNER CABLE:	(909) 975-3398
SOUTHERN CALIFORNIA GAS COMPANY:	(909) 335-7583
FONTANA WATER COMPANY:	(909) 201-7333
SOUTHERN CALIFORNIA EDISON COMPANY:	(909) 928-8270
INLAND EMPIRE UTILITIES AGENCY:	(909) 993-1600

LEGEND:

P.P. — FIRE HYDRANI M.H. — MANHOLE P.P. — POWER POLE T.B. — TOP OF BERM V.C.P. — VITRIFIED CLAY PIPE	INV. S = F.G. S.D. T.R. ST.LT. G.B. H.P. H C.F. B.W. L.S. A.B. P.V.C. C.I.P. F.H. P.P.	- PROPERTY LINE - RIGHT OF WAY - CENTERLINE - ARCHITECTURAL - TOP OF CURB - FLOW LINE - FINISH SURFACE - TOP OF CONCRETE SLAB - HIGH POINT - FINISH FLOOR - ROOF DRAIN - REINFORCED CONCRETE PIPE - INVERT - SLOPE - FINISH GRADE - STORM DRAIN - TOP OF RAIL - STREET LIGHT - GRADE BREAK - HIGH POINT - HEIGHT OF RETAINING - CURB FACE - BACK OF WALK - LANDSCAPING - AGGREGATE BASE - POLY VINYL CHLORIDE - CAST IRON PIPE - FIRE HYDRANT - POWER POLE - VITRIFIED CLAY PIPF	(0.00) B.O.W. T.G. N.G. TOP TOE E.P. A.C. C.L.F. CONC. PKWY DRAIN H.C. FYIST	- EXISTING ELEVATION - BOTTOM OF WALL - TOP OF GRATE - NATURAL GRADE - TOP OF SLOPE - TOE OF SLOPE - EDGE OF PAVEMENT - ASPHALT CONCRETE - CHAIN LINK FENCE - CONCRETE - PARKWAY DRAIN - HANDICAP - FYISTING
--	--	--	--	--

RESPONSIBILITY TO NOTIFY THE OWNERS OF ALL UTILITIES STRUCTURES CONCERNED BEFORE STARTING WORK. NOTICE TO CONTRACTOR:

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM (CCS83), LOCALLY ON CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "EWPP" AND "GISA" AS BEING NORTH 82°35'11" WEST (BASIS OF BEARINGS) (GRID) AND REPRESENTED HEREON BY THE CENTERLINE OF JURUPA AVENUE AS BEING NORTH 89°49'56" EAST. (2010.0

BENCH MARK:

CITY OF FONTANA BENCHMARK NO. "585" ZONE 5, NORTH AMERICAN DATUM 1983 (NAD83) BASED | FD. R.R. SPK. IN PP#320908 AT NORTHWEST CORNER OF SANTA ANA AVENUE & ALMOND AVENUE (PER STREET IMPROVEMENT PLAN # 3487).

ELEVATION = 965.46' (CIRCUIT #6/72)



PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

ANY SUBCONTRACTORS.

PRIVATE AND PUBLIC UTILITIES, IF SHOWN, REFLECT AVAILABLE RECORD DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL LINES AFFECTING THIS WORK AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES. PRIOR TO STARTING

CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL UNCOVER ALL EXISTING

UTILITY LINES AFFECTING THIS WORK AND VERIFY THE ELEVATIONS OF SAID UTILITY

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING ANY WORK SHOWN ON OR

SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR, WITH THE "CONSTRUCTION SAFETY ORDERS" OF THE STATE OF CALIFORNIA DEPARTMENT OF

INDUSTRIAL REGULATIONS AND WITH CALTRANS AREA TRAFFIC CONTROL HANDBOOK

(WATCH), HOWEVER, THE CONSTRUCTION ENGINEER AND THE CITY OF FONTANA SHALL

NOT BE RESPONSIBLE IN ANY WAY FOR SAID COMPLIANCE BY THE CONTRACTOR OR

FURTHERMORE, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY

FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT,

INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. AND THAT

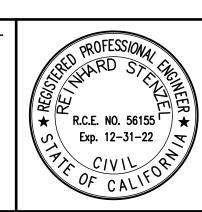
THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ENGINEER, AND THE CITY OF FONTANA HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR

LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER, OR THE

RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL

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E ALERT	REV.	REVISION DESCRIPTION	DATE	ENGR.	CITY	DATE

SHOULD CONSTRUCTION OF THE REQUIRED IMPROVEMENTS NOT COMMENCE WITHIN TWO YEARS OF THE DATE OF APPROVAL SHOWN HEREON AND CARRIED FORTH IN A DILIGENT MANNER. THE CITY ENGINEER MAY REQUIRE REVISIONS TO THE PLANS TO BRING THEM INTO CONFORMANCE WITH CONDITIONS AND STANDARDS IN EFFECT.

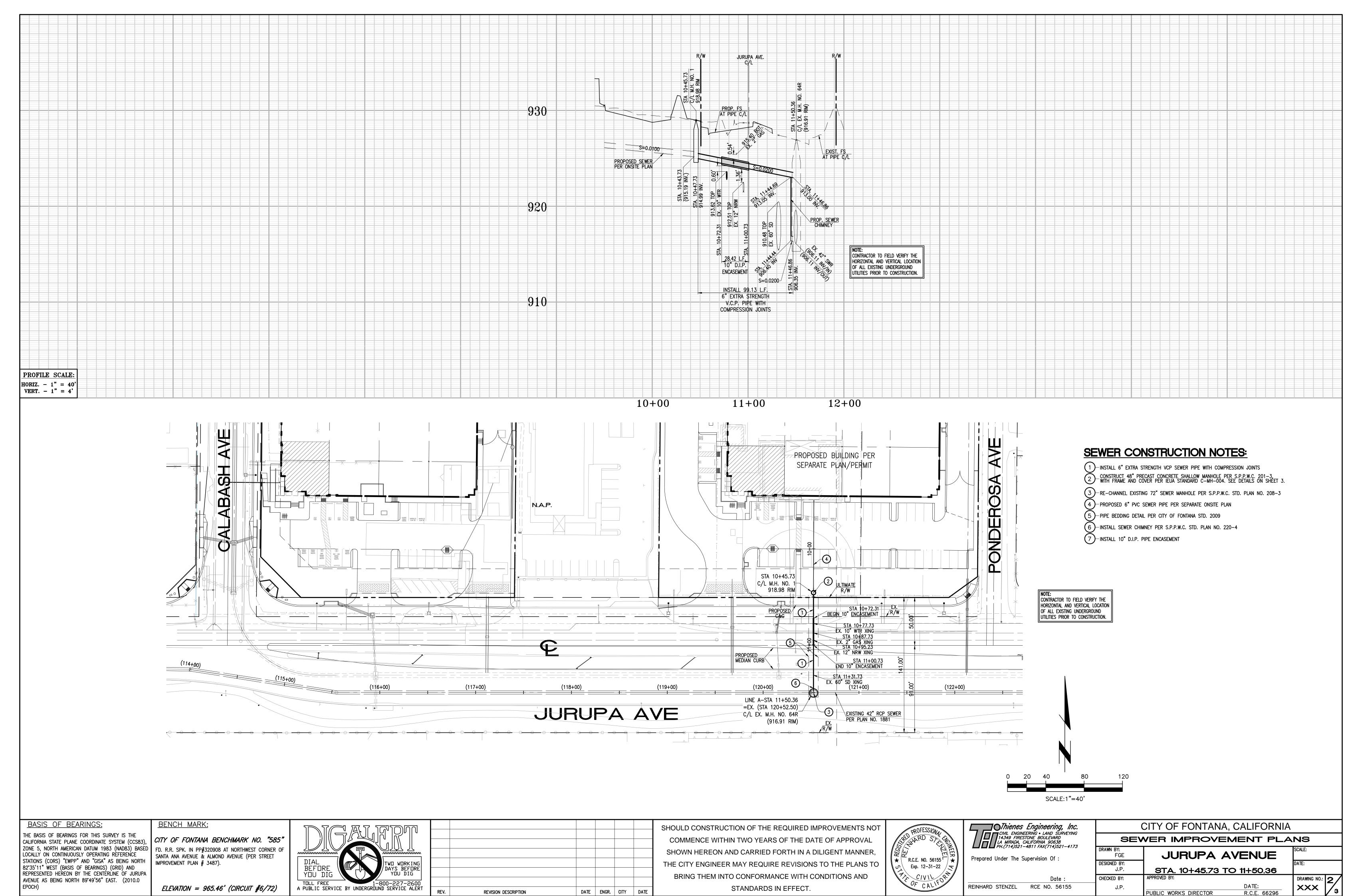


Thienes Engineering, Inc.	CITY OF FONTANA, CALIFORNIA					
CIVIL ENGINEERING • LAND SURVEYING  14349 FIRESTONE BOULEVARD  LA MIRADA, CALIFORNIA 90638 PH.(714)521-4811 FAX(714)521-4173	SEV	VER IMPROVEM	ENT PLA	NS		
Prepared Under The Supervision Of:	DRAWN BY: FGE	TITLE SH	EET	SCALE: AS NOT		
Tropared ender the supervision of .	DESIGNED BY: J.P.	JURUPA AVE FONTANA,	NUE CA	DATE:		
Date :	CHECKED BY:	APPROVED BY:		DRAWING		
REINHARD STENZEL RCE NO. 56155	J.P.		DATE:	XXX		
		PUBLIC WORKS DIRECTOR	R.C.E. 66296			

AS NOTED

DRAWING NO.: 1

XXX

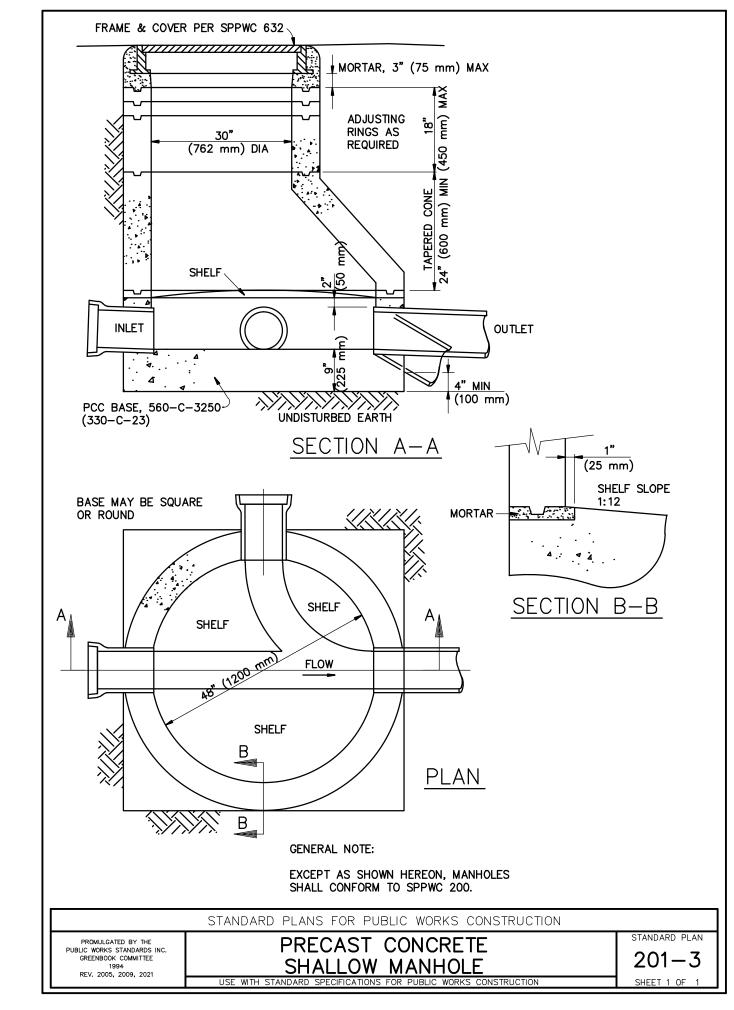




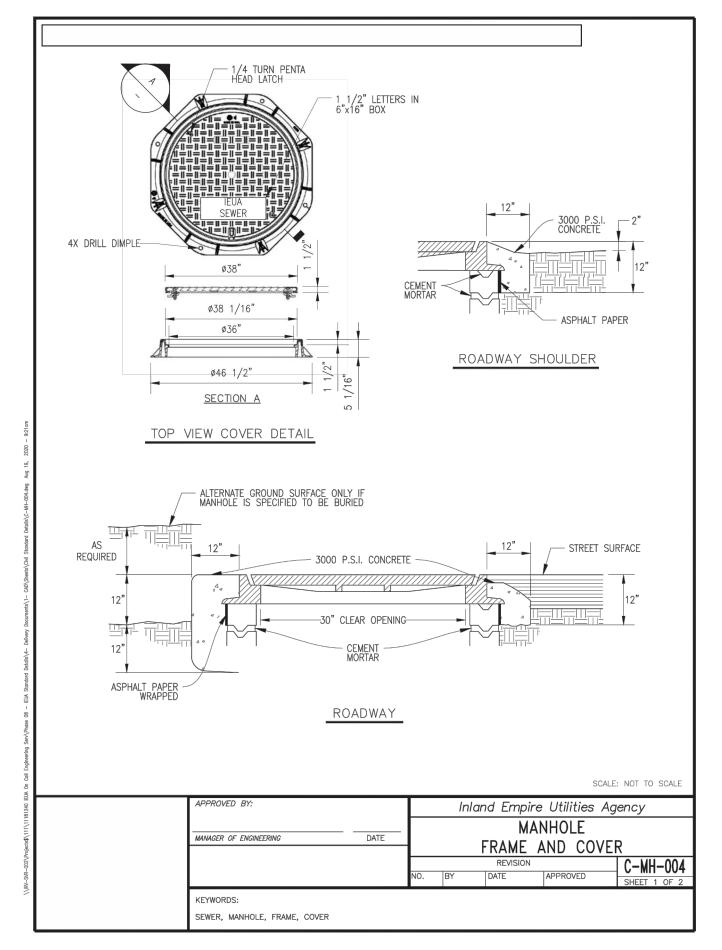
#### **GENERAL NOTES**

- 1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE PROJECT SPECIFICATIONS AS APPROVED BY THE INLAND EMPIRE UTILITIES AGENCY (IEUA), THE CITY OF <u>FONTANA</u> AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND THE IEUA STANDARD DETAIL SHEET OF THIS PLAN SET (SHEETS. No. 3 and ) AS APPROPRIATE.
- ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY
  RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR
  NOT SHOWN ON THESE PLANS.
- 3. ALL OBSTRUCTIONS WITHIN THE AREA TO BE IMPROVED ARE TO BE REMOVED OR RELOCATED AT THE DIRECTION OF THE ENGINEER. UTILITIES ARE TO BE RELOCATED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 4. UTILITY LINE LOCATIONS WERE TAKEN FROM RECORD AND WERE NOT LOCATED IN THE FIELD UNLESS OTHERWISE NOTED ON THE PLAN. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 5. IN CASE OF ANY ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 6424 OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF INDUSTRIAL SAFETY.
- 6. CALL UNDERGROUND SERVICE ALERT (800-422-4133) FOR UNDERGROUND LOCATIONS 48 HOURS BEFORE DIGGING.
- 7. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT 48-HRS PRIOR TO THE TIME OF CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS REFERRED TO SECTION 7-10.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS
- 8. THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS WHICH DURING HIS OPERATIONS HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED. RENEWAL OF PAVEMENT STRIPING & MARKINGS SHALL BE DONE IN CONFORMANCE WITH SECTION 310-5.6 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 9. ALL SEWER MAINS SHALL BE BELL & SPIGOT, EXTRA-STRENGTH VIRTIFIED CLAY PIPE (VCP) UNLESS OTHER WISE NOTED ON THE PLANS.
- 10. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING SEWER MAIN(S) AND NOTIFY AND OBTAIN APPROVAL OF THE DESIGN ENGINEER AND IEUA OF ANY VARIATION FROM DESIGN.
- 11. CONSTRUCTION SHALL NOT BEGIN ON FACILITIES TO BE OWNED BY IEUA UNTIL AFTER THE ISSUANCE OF A PERMIT BY IEUA TO ALLOW THE CONSTRUCTION AND ALSO AFTER A PRE-CONSTRUCTION CONFERENCE TO BE HELD AT LEAST 1 WEEK PRIOR TO BEGINNING CONSTRUCTION.
- 12. IN ADDITION, IEUA AND THE CITY OF <u>FONTANA</u> SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF THE TRUNK SEWER OR ANY FACILITIES OWNED AND OPERATED BY IEUA AND/OR CITY OF <u>FONTANA</u>.
- 13. ALL TRENCHING AND/OR SHORING SHALL MEET REQUIREMENTS OF CAL-OSHA.
- 14. THE CONTRACTOR SHALL SUBMIT COPIES OF HIS DEPARTMENT OF INDUSTRIAL SAFETY PERMIT TO IEUA AND TO THE CITY OF FONTANA.
- 15. SHOP DRAWINGS AS REQUIRED BY THE PERMIT SHALL BE APPROVED BY IEUA PRIOR TO BEGINNING OF THE CONSTRUCTION.
- 16. UNLESS OTHERWISE APPROVED, LOW PRESSURE WATER TEST FOR THE GRAVITY SEWER LINES AND PRESSURE WATER TEST FOR THE PRESSURIZED PIPELINES SHALL BE PERFORMED IN CONFORMANCE WITH SECTION 306-1.4. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

### IEUA GENERAL NOTES:



SHALLOW MANHOLE:



#### NOTES:

- 1. EJ COMPOSITE FRAME AND COVER SHALL BE H-20 AND H-25 HEAVY DUTY TRAFFIC RATED.
- 2. CONTRACTOR SHALL PROVIDE FIVE (5) COMPOSITE COVER TWISTLIFT® OPENING TOOLS WITH LOCK SOCKET, 30" LONG AND POWDER COATED BLACK
- 3. COVER SHALL BE FURNISHED WITH STAINLESS STEEL BOLTS WITH CAPTIVE WASHERS AND "T" STYLE GASKET. STAINLESS STEEL BOLTS WITH CAPTIVE WASHERS FROM INWESCO CO., AZUSA, CA (CAT. #85A84). "T" STYLE GASKET (R&D CO. #TG101) IS
- AVAILABLE FROM MAYDWELL & HARTZELL CO. LOS ANGELES, CA.

  4. MANHOLE LID COLOR SHALL BE BLACK.
- 5. AREA AROUND PERIMETER ON BOTTOM SIDE OF COVER SHALL BE SMOOTH, FLAT, AND FREE OF ANY POCKETS OR
- 6. FIT AND MATCHMARKING: EACH MANHOLE COVER SHALL BE GROUND OR OTHERWISE FINISHED SUCH THAT THE COVER WILL FIT IN ITS FRAME WITHOUT ROCKING. FRAME AND COVER SHALL BE MATCHMARKED IN SETS BEFORE SHIPPING TO THE SITE.
- 7. THE MANHOLE FRAME SHALL BE SECURED TO THE GRADE RING WITH CEMENT-MORTAR GROUT. AFTER THE FRAME IS SECURELY SET, THE FRAME AND THE COVER SHALL BE CLEANED AND SCRAPED FREE OF FOREIGN MATERIALS AND SHALL BE
- GROUND OR OTHERWISE FINISHED AS NECESSARY SUCH THAT THE COVER FITS IN ITS FRAME WITHOUT ROCKING.

  8. THE RELIEF DEPTH OF THE CAST LETTERS SHALL BE AT LEAST 3/16". TOP SURFACE OF THE LETTERS AND TOP FINISH SHALL
- BE FLUSH WITH THE OUTER RING EDGE AND THE FRAME TOP SURFACES.
- 9. PRECAST SECTIONS SHALL BE ASSEMBLED SUCH THAT THE MANHOLE COVER IS FLUSH WITH THE PAVING SURFACE.
- 10. THE CONTRACTOR SHALL REPLACE THE COVER AT THEIR OWN EXPENSE IF CRACKS DEVELOP, REGARDLESS OF SIZE, THAT RUN FROM ONE EDGE TO ANOTHER EDGE OR TO THE MANHOLE OPENING.
- 11. MANHOLE FRAME AND COVER SHALL BE EJ COMPOSITE WITH TITUS 4-TWISTLIFT SECURITY LOCKS.

EJ Black Composite Water-Resistant Manhole Cover and Frame with Gasket, "IEUA SEWER" Custom Center Insert, Heavy Duty Traffic Rated, U.S. Load Specification, Exceeds AASHTO M306-10 H-20 & H-25 traffic requirements of 50,000 lbs., with 89,925 lb. ultimate load bearing, EU and International Load Specification, Exceeds: EN 124 D400- 89,925 Lbs., (4) TITUS® TwistLIFT® Security Lock Systems bolt shall be machined From 17-4PH H900 Hardened Stainless Steel

APPROVED BY:

MANHOLE
FRAME AND COVER

REVISION
NO. BY DATE APPROVED

KEYWORDS:
SEWER, MANHOLE, FRAME, COVER

## IEUA MANHOLE COVER

#### BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM (CCS83), ZONE 5, NORTH AMERICAN DATUM 1983 (NAD83) BASED LOCALLY ON CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "EWPP" AND "GISA" AS BEING NORTH 82°35'11" WEST (BASIS OF BEARINGS) (GRID) AND REPRESENTED HEREON BY THE CENTERLINE OF JURUPA AVENUE AS BEING NORTH 89°49'56" EAST. (2010.0 EPOCH)

#### BENCH MARK:

CITY OF FONTANA BENCHMARK NO. "585"

FD. R.R. SPK. IN PP#320908 AT NORTHWEST CORNER OF SANTA ANA AVENUE & ALMOND AVENUE (PER STREET IMPROVEMENT PLAN # 3487).

ELEVATION = 965.46' (CIRCUIT #6/72)



SHOULD CONSTRUCTION OF THE REQUIRED IMPROVEMENTS NOT COMMENCE WITHIN TWO YEARS OF THE DATE OF APPROVAL SHOWN HEREON AND CARRIED FORTH IN A DILIGENT MANNER, THE CITY ENGINEER MAY REQUIRE REVISIONS TO THE PLANS TO BRING THEM INTO CONFORMANCE WITH CONDITIONS AND STANDARDS IN EFFECT.

DATE ENGR. CITY DATE



Thienes Engineering, Inc.  CIVIL ENGINEERING • LAND SURVEYING 14349 FIRESTONE BOULEVARD LA MIRADA, CALIFORNIA 90638 PH.(714)521-4811 FAX(714)521-4173
Prepared Under The Supervision Of :

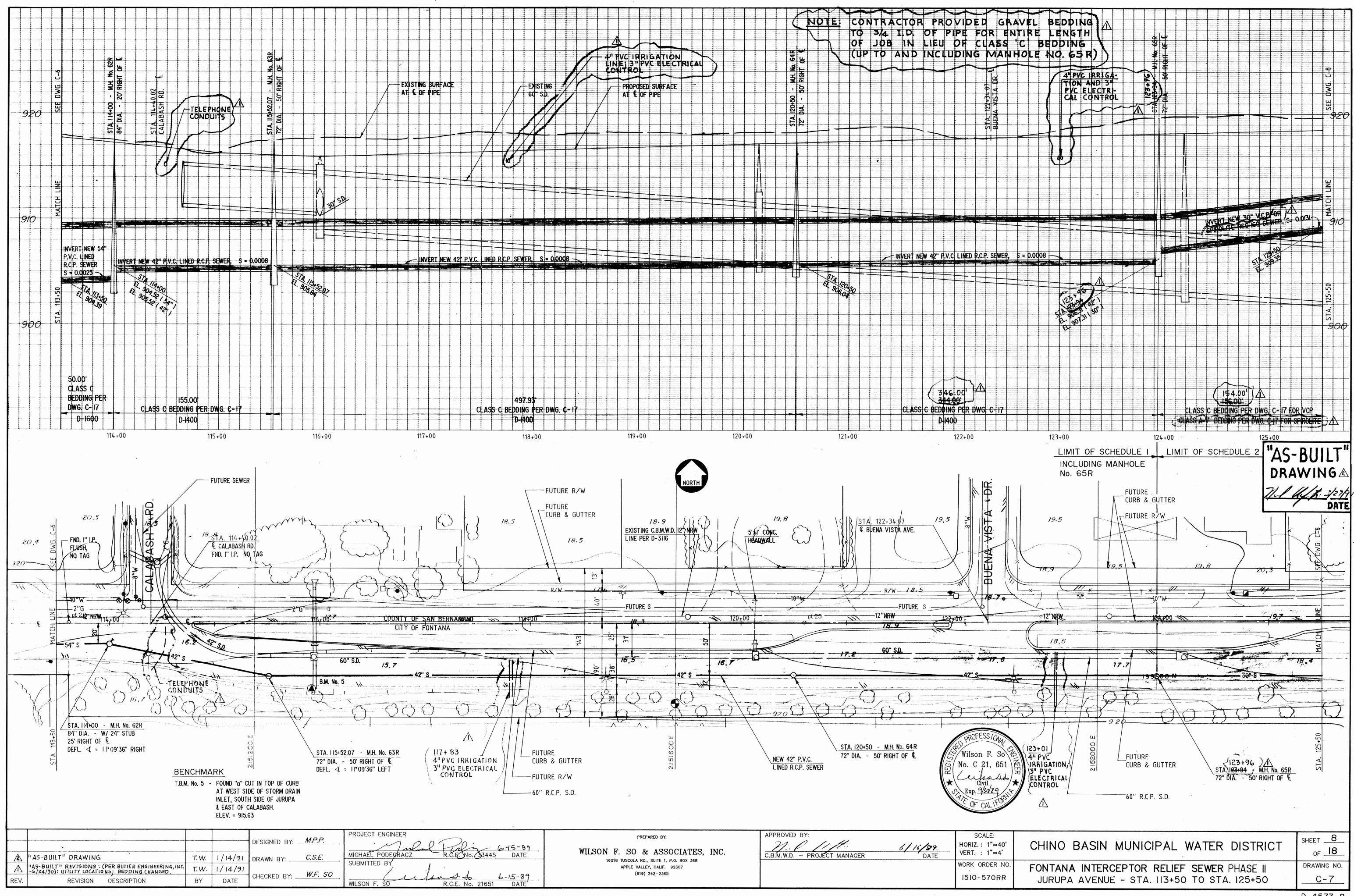
REINHARD STENZEL RCE NO. 56155

CHECKED BY:

# CITY OF FONTANA, CALIFORNIA SEWER IMPROVEMENT PLANS DRAWN BY: FGE DESIGNED BY: J.P. DATE: DATE:

PUBLIC WORKS DIRECTOR

XXX



#### ATTACHMENT B

General Location for Connection F-36

#### Max Flow based on use

ADWF=0.000896 MGD

System Peaking for IEUA's Hydraulic Modeling IEUA Peaking Factor

PWWF=0.002985 MGD

PWWF=0.004212MGD





ACTION ITEM

1F



Date: February 23, 2023

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the Cucamonga Valley Water District (CVWD) for a Regional Connection

Point to the Etiwanda Trunk Sewer Connection # CW-23 (Project No. EN0000000152)

#### **RECOMMENDATION**

It is recommended that the Regional Technical Committee tentatively approve the request by Cucamonga Valley Water District (CVWD) for one new connection to the Etiwanda Trunk Sewer (CVWD # CW-23) pending:

1. The CVWD providing the LAFCO approved resolution ratifying the Irrevocable Agreement to Annex the noted area for sewer service.

#### **BACKGROUND**

On September 6, 2022, the Inland Empire Utilities Agency (IEUA) received a request from the CVWD (Attachment "A"), for the approval of a new regional connection to the Etiwanda Trunk Sewer at Station 246+99.32, through an existing 60-inch manhole located in Arrow Route.

The connection point is required to serve a 4.75 acre (net) tributary area located at 8545 Pecan Avenue for an industrial warehouse and office building. The property sits approximately 325 feet south of the intersection of Arrow Route and Pecan Avenue. Although the property is within the sphere of influence for the CVWD, it is currently not part of their service area; and therefore, a LAFCO approved resolution is required for this connection. The vicinity map is provided (Attachment "B").

Dry average flows were provided by the CVWD. IEUA applied its' peak dry and wet weather flow peaking factors to the average flow provided:

#### SUMMARY OF FLOW RATES UTILIZED

CVWD Regional Connection CW-23 Average Dry Weather Flow (ADWF) Rate =0.00064 MGD Peak Dry Weather Flow (PDWF) Rate = 0.00219MGD Peak Wet Weather Flow (PWWF) Rate =0.0031MGD

The hydraulic model was used to evaluate the Etiwanda Trunk Sewer to Regional Water Recycling Facility No. 4 (RP-4) as shown in Attachment "B. The hydraulic analysis shows that the connections will not create a capacity deficiency within the noted collection system at buildout under PWWF. Currently, the Etiwanda interceptor has a depth to Diameter ratio (d/D) of 0.37 and an average flowrate of 9.067 MGD. The full capacity of the 42-inch sewer line is 30.814 MGD. This leaves an available capacity of 21.745 MGD.

#### ATTACHMENT A

CVWD Regional Interceptor Request Dated September 6, 2022



Service Beyond Expectation

10440 Ashford Street, Rancho Cucamonga, CA 91730-2799
 P.O. Box 638, Rancho Cucamonga, CA 91729-0638
 (909) 987-2591 Fax (909) 476-8032

**John Bosler** Secretary/General Manager/CEO

September 6, 2022

Mr. Matthew Poeske, P.E. Office Engineer Inland Empire Utilities Agency 6075 Kimball Avenue Chino, CA 91710

Subject: Request for Regional Sewer Connection to the 42-inch Trunk Sewer Located in Arrow Route at Pecan Avenue.

Mr. Poeske,

The Cucamonga Valley Water District (District) is requesting a new Regional Point of Connection for a property on 8545 Pecan Avenue in the City of Rancho Cucamonga. The property sits approximately 325 feet south of the intersection of Arrow Route and Pecan Avenue. Although the property is within the sphere of influence for the District, we do not own any sewer mains nearby. The developer for the property has requested support to make a sewer connection.

The District proposes to connect a new 8-inch VCP sewer main into a new 60-inch manhole at STA 1+00.00 within Arrow Route. The developer has submitted a sewer usage estimate (plumber's report) for their average daily flow (ADF) to be 0.00064 MGD. We have also attached sewer connection plans, a figure of the tributary area, and a map showing the District boundary and the City of Rancho Cucamonga boundary in relation to the property of interest.

Please let us know if you need more information.

Thank you,

Eduardo Espinoza, P.E. Assistant General Manager Cucamonga Valley Water District

#### Attachments:

8545 Pecan Avenue Development – Sewer Flow Demand Report 8545 Pecan Avenue Development – Sewer Exhibit IEUA Service Boundary Map 8545 Pecan Avenue Development – Sewer Plans PROJECT: PECAN AVE DEVELOPMENT - RANCO CUCAMONGA CA 91739

BUILDING AREA: 98,658 SF

OCCUPANCY USE TYPE: BUSINESS AREAS

WAREHOUSE: OCCUPANT LOAD FACTOR 5,000 SQ.FT. /PERSON (CPC 2019 Sec. 422.1 Table A)

WAREHOUSE AREA : 92,915 SQ. FT. / 5,000 = 19 occupants

**OCCUPANT LOAD : 50% MALE , 50% FEMALE: OCC. Use 20/2 = 10 (10 MALE & 10 FEMALE)** 

OFFICE or PUBLIC BUILDINGS: OCCUPANT LOAD FACTOR 200 SQ.FT. /PERSON (CPC 2019 Sec. 422.1 Table A)

PROPOSED OFFICE AREA: 5,058 SQ. FT. / 200 = 25.29 occupants

OCCUPANT LOAD: 50% MALE, 50% FEMALE: OCC. Use 26/2 = 13 (13 MALE & 13 FEMALE)

WAREHOUSE + OFFICE OCCUPANT = 46 (23 MALE & 23 FEMALE)

FETIMATED WATER HEACE CALCIUM ATION (								
ESTIMATED WATER USAGE CALCULATION (per occupant use/ per type of fixture)								
FIXTURE TYPE	FLOW RATE (GPM)	DURATION	DAILY U	SES	OCCUPANTS	GALLONS/ DAY		
LAVATORY	0.5	0.2 min	4		46	18.		
DRINKING FOUNTAIN	0.5	0.1 min	2		46	4.		
KITCHEN SINK	1.5	4 min	2		46	55		
WATER CLOSET (FLUSH VALVE)	ATER CLOSET (FLUSH VALVE) 1.28 1	1 flush	1	Male	23	29.4		
WATER CLOSET (FLOSH VALVE)		Illusii	4	Female	23	117.7		
URINAL (FLUSH VALVE)	0.125	1 flush	4	Male	23	11.		
MOP SINK	2	5 min	2		2	. 4		
TOTAL MAX	•	•			-	773.		

0.00064 MG

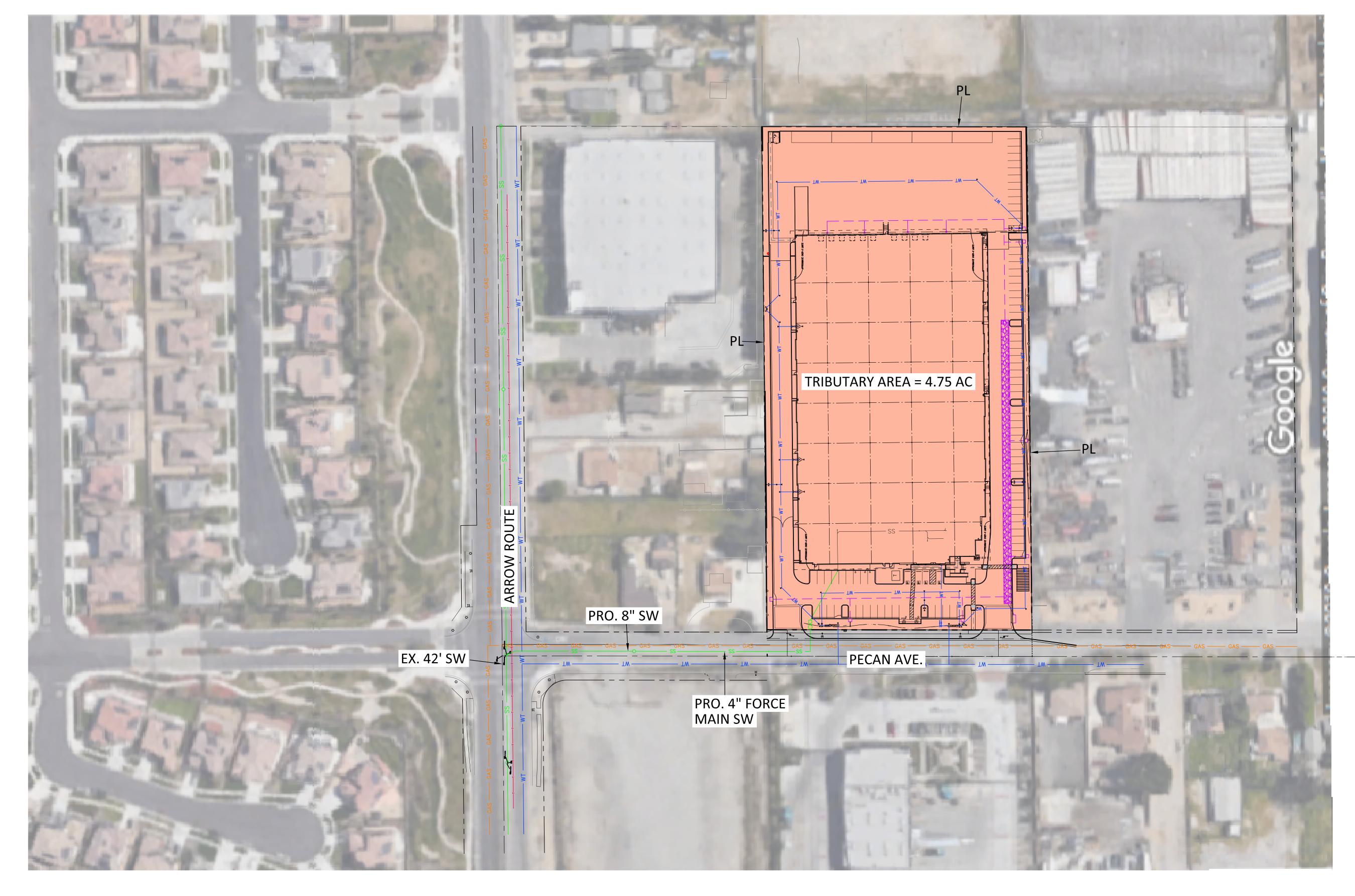
MGD (PEAK)

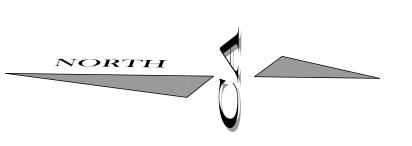
(PEAK)

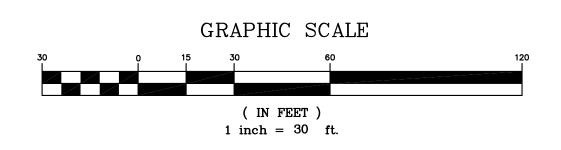
7 GPD (AVERAGE)



## 8545 PECAN AVENUE - SEWER TRIBUTARY AREA







## LEGEND

WT	WT	WATER
	— ss —	SEWER
	— SD —	STORM DRAIN
—т		TELEPHONE
—— GAS ———	GAS — GAS —	GAS

PREPARED BY:

CA ENGINEERING, INC.

Planning • Engineering Surveying

13821 NEWPORT AVE., STE. 110

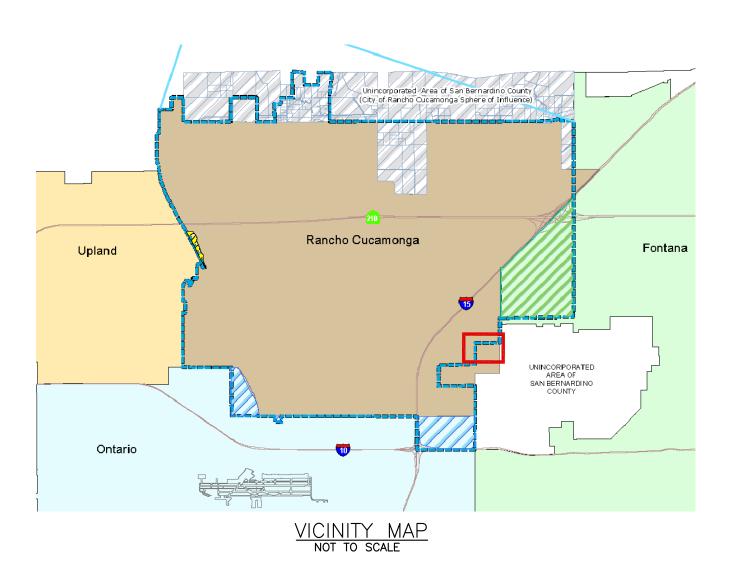
TUSTIN, CA 92780

949-724-9480 949-724-9484 FAX

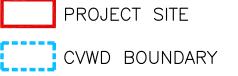
PROPERTY ADDRESS: 8545 PECAN AVE, RANCHO CUCAMONGA, CA JOB NO.
251-47
Sht.
1 of 1



INDEX MAP NOT TO SCALE

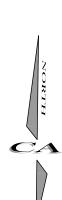


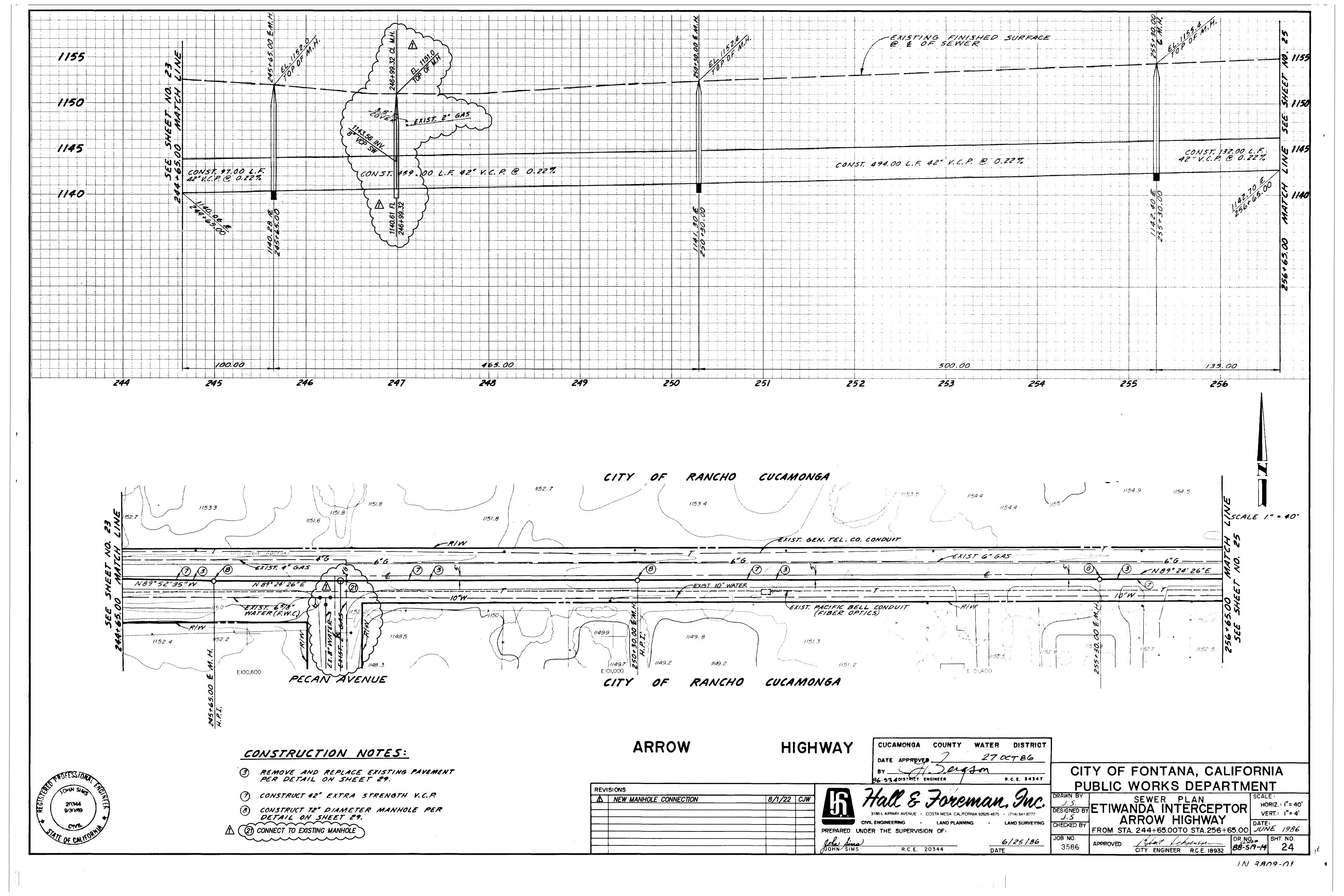














#### CVWD GENERAL NOTES

- 1. ALL WATER, SEWER, AND RECYCLED WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CUCAMONGA VALLEY WATER DISTRICT'S STANDARD DRAWINGS FOR THE CONSTRUCTION OF SYSTEM FACILITIES AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ALL DISTRICT STANDARDS ARE AVAILABLE DIRECTLY OR BY REFERENCE AT WWW.CVWDWATER.COM/DEVELOPMENT
- 2. THE CONTRACTOR IS RESPONSIBLE FOR SECURING FROM THE CUCAMONGA VALLEY WATER DISTRICT COPIES OF THE LATEST STANDARD DRAWINGS FOR THE CONSTRUCTION OF SYSTEM FACILITIES PRIOR TO START OF CONSTRUCTION.
- 3. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS. THE DISTRICT MAY, AT ITS SOLE DISCRETION, DETERMINE A DEVELOPER'S CONTRACTOR IS UNABLE OR UNWILLING TO PERFORM REPAIRS. IN THIS CASE, THE DISTRICT CAN ASSIGN ITS OWN STAFF OR AN EMERGENCY CONTRACTOR TO PERFORM REPAIR WORK AT THE EXPENSE OF THE DEVELOPER'S CONTRACTOR.
- 4. THE DEVELOPER SHALL HAVE THEIR ENGINEER AND/OR CONTRACTOR VERIFY THE ELEVATIONS OF ALL EXISTING WATER MAINS AND MANHOLE INVERTS AT POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF FACILITIES. ANY NECESSARY CHANGES OF WATER LINE DEPTH, MANHOLE DEPTH, OR DESIGNED SLOPE OF THE SEWER LINE SHALL BE SUBMITTED TO THE CUCAMONGA VALLEY WATER DISTRICT FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION. DISCOVERY OF ANY DISCREPANCIES AFTER THE START OF CONSTRUCTION MAY RESULT IN A SUSPENSION IN CONSTRUCTION UNTIL A REMEDY IS APPROVED BY THE DISTRICT.
- 5. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE NECESSARY PERMITS FROM THE APPROPRIATE LOCAL AGENCIES PRIOR TO ANY CONSTRUCTION WITHIN ANY STREET, RIGHT-OF-WAY, OR EASEMENT
- 6. THE MINIMUM SEPARATION BETWEEN WATER LINES AND SANITARY SEWER LINES SHALL CONFORM TO THE STATE OF CALIFORNIA ENVIRONMENTAL HEALTH CODE,
- 7. TRENCH RESTORATION AND PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE LOCAL AGENCY.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY UNDERGROUND SERVICE ALERT (811) AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO START OF CONSTRUCTION.
- 9. FOR WATER, SEWER, OR RECYCLED WATER SYSTEM INSPECTION ON THIS PROJECT, THE CONTRACTOR SHALL CONTACT THE CUCAMONGA VALLEY WATER DISTRICT AT (909) 987-2591, TWO WORKING DAYS PRIOR TO THE REQUIRED INSPECTION DATE.
- 10. THE CONTRACTOR SHALL RETURN A LEGIBLE AND CLEAN SET OF "AS BUILT" DRAWINGS TO THE CUCAMONGA VALLEY WATER DISTRICT PRIOR TO FINAL ACCEPTANCE OF ANY SYSTEM.
- 11. APPROVAL OF THESE PLANS BY THE CUCAMONGA VALLEY WATER DISTRICT DOES NOT CONSTITUTE A REPRESENTATION OF THE ACCURACY OR EXISTENCE OF ANY EXISTING UNDERGROUND FACILITIES, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.

#### CVWD SEWER GENERAL NOTES

- 1. ALL SEWER LINES SHALL BE VITRIFIED CLAY PIPE (V.C.P.), UNLESS OTHERWISE SPECIFIED ON THE PLANS. PRIOR TO PLAN APPROVAL, THE DEVELOPER'S ENGINEER MUST DEMONSTRATE THE DESIGN SLOPE OF NEW SEWER MAINS WILL HAVE A VELOCITY OF TWO (2) TO SEVEN (7) FEET PER SECOND (FPS) UNDER NORMAL FLOW CONDITIONS. ANY SLOPE DEVIATION FROM THE PLANS MUST BE REQUESTED IN WRITING WITH REVISED VELOCITY CALCULATIONS. ONLY THE DISTRICT ENGINEER MAY APPROVE CHANGES TO DESIGN SLOPE.
- 2. ALL SEWER LATERALS SHALL BE V.C.P., UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL HOUSES LATERALS SHALL BE 4 INCHES IN DIAMETER, WHILE LATERAL SIZING FOR OTHER FACILITIES (COMMERCIAL, INDUSTRIAL, APARTMENTS, ETC.) SHALL BE AS NOTED ON THE PLANS. ALL LATERAL CONNECTIONS TO THE MAIN LINE SHALL BE THROUGH A WYE CONNECTION, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 3. THE CONTRACTOR PERFORMING THE WORK SHALL HAVE A CLASS C42 OR CLASS A GENERAL CONTRACTING LICENSE WITH RELEVANT SEWER PIPELINE CONSTRUCTION EXPERIENCE.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING MANHOLE CHANNEL GUARDS IN ALL SEWER SYSTEMS AS DIRECTED BY THE
- 5. ROCK BEDDING AND ROCK BACKFILL IN THE PIPE ZONE IS REQUIRED.
- 6. THE DEVELOPER SHALL HAVE THEIR ENGINEER VERIFY THE ELEVATIONS OF THE MANHOLES IN ANY PAVED SECTIONS TO ALLOW ANY NECESSARY ADJUSTMENTS TO THE MANHOLE FRAMES PRIOR TO PLACEMENT OF FINAL PAVEMENT.
- 7. BACKWATER VALVES ARE REQUIRED ON ALL SEWER LATERALS. INSTALLATION OF BACKWATER VALVES SHALL CONFORM TO THE LATEST VERSION OF THE CALIFORNIA PLUMBING CODE.
- 8. GREASE INTERCEPTORS ARE REQUIRED FOR THE PROPER MAINTENANCE OF LIQUID WASTE CONTAINING GREASE, SAND, SOLIDS, ACID OR ALKALINE SUBSTANCES, OR OTHER INGREDIENTS, WHICH MAY BE HARMFUL TO THE PUBLIC SEWER SYSTEM. INTERCEPTORS SHALL CONFORM TO STANDARD DRAWINGS 209, 210, OR 211 AS APPROVED BY THE DISTRICT ENGINEERING DEPARTMENT.

## Underground Service Aler Call: TOLL FREE TWO WORKING DAYS BEFORE YOU DIG

## SEWER IMPROVEMENT PLAN **FOR GRID 2513** PECAN AVENUE IN THE CITY OF RANCHO CUCAMONGA

#### IEUA GENERAL NOTES

- 1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE PROJECT SPECIFICATIONS AS APPROVED BY THE INLAND EMPIRE UTILITIES AGENCY (IEUA). THE CITY OF AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND THE IEUA STANDARD DETAIL SHEET OF THIS PLAN SET (SHEETS. NO. AND ) AS APPROPRIATE.
- 2. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SHOWN ON THESE PLANS.
- 3. ALL OBSTRUCTIONS WITHIN THE AREA TO BE IMPROVED ARE TO BE REMOVED OR RELOCATED AT THE DIRECTION OF THE ENGINEER. UTILITIES ARE TO BE RELOCATED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 4. UTILITY LINE LOCATIONS WERE TAKEN FROM RECORD AND WERE NOT LOCATED IN THE FIELD UNLESS OTHERWISE NOTED ON THE PLAN. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 5. IN CASE OF ANY ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 6424 OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF INDUSTRIAL SAFETY.
- 6. CALL UNDERGROUND SERVICE ALERT (800-422-4133) FOR UNDERGROUND LOCATIONS 48 HOURS BEFORE DIGGING.
- 7. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT 48-HRS PRIOR TO THE TIME OF CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS REFERRED TO SECTION 7-10.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 8. THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS WHICH DURING HIS OPERATIONS HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED. RENEWAL OF PAVEMENT STRIPING & MARKINGS SHALL BE DONE IN CONFORMANCE WITH SECTION 310-5.6 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 9. ALL SEWER MAINS SHALL BE BELL & SPIGOT, EXTRA-STRENGTH VIRTIFIED CLAY PIPE (VCP) UNLESS OTHER WISE
- 10. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING SEWER MAIN(S) AND NOTIFY AND OBTAIN APPROVAL OF THE DESIGN ENGINEER AND IEUA OF ANY VARIATION
- 11. CONSTRUCTION SHALL NOT BEGIN ON FACILITIES TO BE OWNED BY IEUA UNTIL AFTER THE ISSUANCE OF A PERMIT BY IEUA TO ALLOW THE CONSTRUCTION AND ALSO AFTER A PRE-CONSTRUCTION CONFERENCE TO BE HELD AT LEAST 1 WEEK PRIOR TO BEGINNING CONSTRUCTION.
- 12. IN ADDITION, IEUA AND THE CITY OF SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF THE TRUNK SEWER OR ANY FACILITIES OWNED AND OPERATED BY IEUA AND/OR CITY OF
- 13. ALL TRENCHING AND/OR SHORING SHALL MEET REQUIREMENTS OF CAL-OSHA.
- 14. THE CONTRACTOR SHALL SUBMIT COPIES OF HIS DEPARTMENT OF INDUSTRIAL SAFETY PERMIT TO IEUA AND TO THE CITY OF RANCHO CUCAMONGA.
- 15. SHOP DRAWINGS AS REQUIRED BY THE PERMIT SHALL BE APPROVED BY IEUA PRIOR TO BEGINNING OF THE
- 16. UNLESS OTHERWISE APPROVED, LOW PRESSURE WATER TEST FOR THE GRAVITY SEWER LINES AND PRESSURE WATER TEST FOR THE PRESSURIZED PIPELINES SHALL BE PERFORMED IN CONFORMANCE WITH SECTION 306-1.4. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

#### NOTICE TO DEVELOPER'S ENGINEER AND CONTRACTOR

AS-BUILT PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND AS-BUILT PLAN MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. ANY PROTECTION, RELOCATION, RE-DESIGN, OR REPAIRS THAT MAY BE PLANNED OR REQUIRED UPON DISCOVERY IN THE COURSE OF THIS PROJECT ARE THE SOLE RESPONSIBILITY OF THE

CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SEWER LINE PRIOR TO START OF CONSTRUCTION. <u>POTHOLING IS REQUIRED</u> AT POINTS OF CONNECTION AND OVER ALL EXISTING FACILITIES CROSSINGS. RESULTS OF POTHOLING MUST BE PLOTTED ON THE ORIGINAL DRAWINGS AND SUBMITTED TO THE DISTRICT THREE (3) WORKING DAYS PRIOR TO THE START OF ANY TRENCH EXCAVATION. ANY DEVIATIONS FROM PROFILE MUST BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR TO START OF CONSTRUCTION.

CONTRACTOR AND DEVELOPER ARE RESPONSIBLE FOR COMPLIANCE WITH THE APPROVED DRAWINGS AND ALL OF THE DISTRICT'S STANDARDS AND POLICIES. CONTRACTOR TO FAMILIARIZE THEMSELVES TO CUCAMONGA VALLEY WATER DISTRICT STANDARDS AND INSTALL FACILITIES PER SAID STANDARDS. IF THERE IS A DISCREPANCY BETWEEN THE APPROVED DRAWINGS AND DISTRICT STANDARDS, THE DISTRICT STANDARDS SHALL GOVERN UNLESS EXPLICITLY STATED OTHERWISE. TREE, SHRUBS, AND PLANTS MUST BE PLANTED AT LEAST 10' FROM ALL WATER AND SEWER FACILITIES.

ANY WATER OR SEWER FACILITIES NOT BEING USED BY THIS PROJECT MUST BE ABANDONED AS DIRECTED BY THE CUCAMONGA VALLEY WATER DISTRICT INSPECTOR. INCLUDING, BUT NOT LIMITED TO WATER METERS, WATER MAINS, SERVICE LINES, SEWER LATERALS, OR SEWER MAINS. DEVELOPER'S ENGINEER AND CONTRACTOR MUST CONDUCT A FIELD INSPECTION PRIOR TO CONSTRUCTION FOR ALL ABANDONMENTS INDICATED OR NOT INDICATED ON THIS PLAN. AT THE CLOSE OF THE PROJECT, DEVELOPER'S ENGINEER MUST PLOT ACTUAL FIELD CONDITIONS ON PROPOSED PLANS AND SUBMIT TO THE DISTRICT.

CONTACT INFO:

562-546-0252

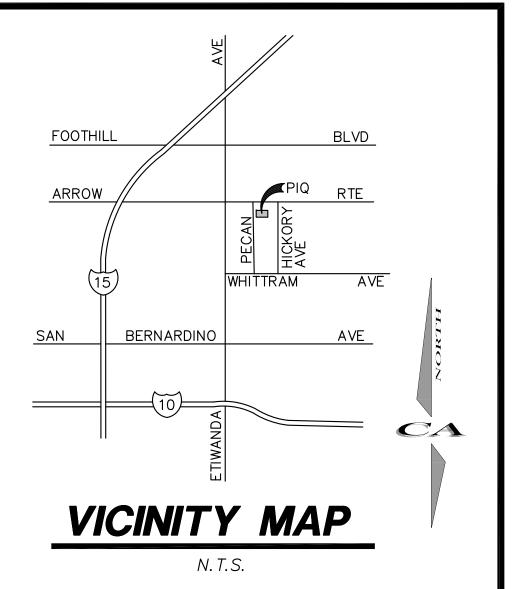
CONTACT: MR. SHEAN KIM

#### CONSTRUCTION NOTES:

THE QUANTITIES SHOWN HEREON ARE ESTIMATES ONLY. THE CONTRACTORS SHALL PREPARE THEIR OWN QUANTITIES AND BID A COMPLETE JOB

NOTE: CONTRACTOR TO ADJUST ALL VALVE COVERS AND MANHOLE RIMS TO GRADE AFTER FINAL PAVING HAS BEEN INSTALLED.

1)—INSTALL 4" DUCTILE IRON SEWER FORCE MAIN (EPOXY LINED)	153	LF
2 INSTALL 8" VCP (EXTRA STRENGTH) SEWER LINE (BEDDING PER DETAIL SHT. 3)	.246	LF
(3)—CONNECT TO EXISTING MANHOLE PER IEUA DETAIL C-MH-001 (SEE SHT. 3)	1	ΕA
(4)—CONSTRUCT 48" SHALLOW MANHOLE PER CVWD STD. 204 A & B	1	ΕA
(5)—ADJUST RIM TO GRADE AFTER FINAL PAVING INSTALLED	2	ΕA
6 - INSTALL SEWER BACKWATER VALVE (ALL METAL) IN VAULT IMMEDIATELY DOWNSTREAM OF LIFT STATION.	1	EA
(7)—CONSTRUCT PAVEMENT REPAIR PER CITY OF RANCHO CUCAMONGA STD. 120	1138	SF



INDEX OF SHEETS

SHEET	DESCRIPTION					
1	TITLE SHEET					
2	SEWER IMPROVMENT PLAN					
3	DETAIL SHEET					

#### **LEGEND**

	ss	
		INFILTRATION PIPE
		BOUNDARY PROPERTY LINE/RIGHT OF WAY CENTERLINE EASEMENT EX CURB & GUTTER
	_950	EX CONTOUR
		EX. TREE/BUSH
_		PRO. TOP OF SLOPE
_		PRO. TOE OF SLOPE
	<b></b>	DRAIN INLET & PIPE
		PRO. BUILDING PRO. CURB PRO. CURB & GUTTER
	E	HANDICAP STALL
N — S — W — NLY — SLY — ELY — PL — WM — SP — IF	NORTH SOUTH EAST WEST NORTHERLY SOUTHERLY EASTERLY WESTERLY PROPERTY LINE	EV — ELECTRIC VAULT EM — ELECTRIC METER LIP — LIP OF GUTTER TC — TOP OF CURB FS — FINISH SURFACE FF — FINISH FLOOR FL — FLOW LINE HP — HIGH POINT TG — TOP OF GRATE 2% — RATE OF GRADE
	A(	PAVEMENT

INL	LOCATION 6075 K Chino, (	D EMPIRE UTILITIES AGENCY*  A Municipal Water District  N MAILING ADDRESS Post Office Box 9020 Chino Hills, California 91709  One (909) 993-1600
PROJECT	NAME:	
PROJECT	NO:	
REVIEWED		Date  Matthew A. Poeske, IEUA Senior Engineer
DRAWING	NO:	

#### BENCH MARK: DESIGNATION: E PP1 PID: EV9252 DESCRIBED BY METRO WATER DISTR SO. CALIFORNIA 1990 RANCHO CUCAMONGA, AT ARROW HIGHWAY AND ETIWANDA AVE 154 FEET (46.9 M) NORTH OF THE CENTERLINE OF ARROW HWY AND 30 FEET (9.1 M) EAST OF THE CENTERLINE OF ETIWANDA AVE TOP OF EAST CURB 1 FOOT (0.3 M) NORTH OF FIRE HYDRANT A 1-3/8 INCH BRASS SET FLUSH IN TOP OF CURB DESCRIPTION DATE | APP'D | ELEV: 1158.05 (NAVD88)

**XEBEC REALTY PARTNERS** 3010 OLD RANCH PARKWAY, STE 470 SEAL BEACH, CA 90740

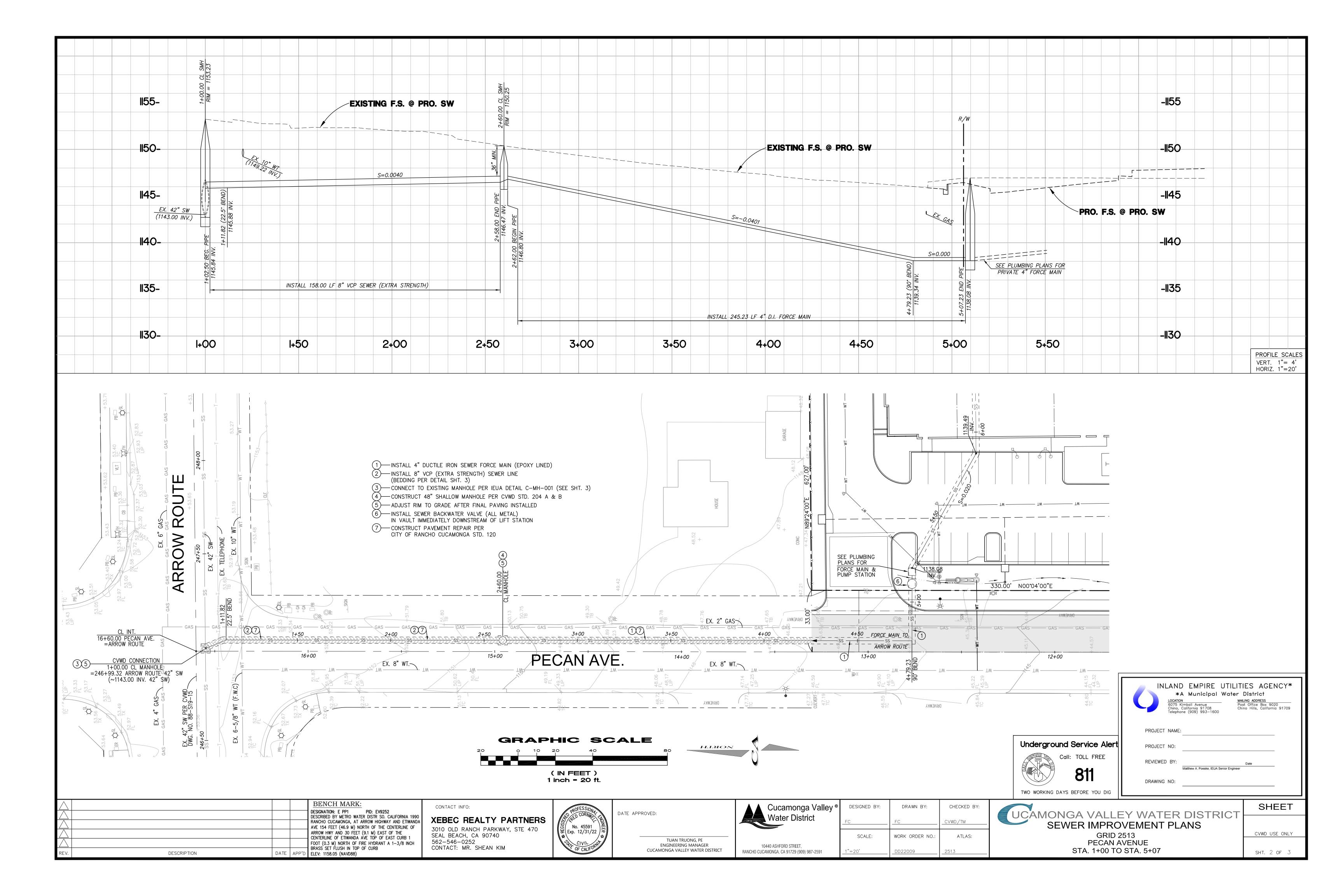


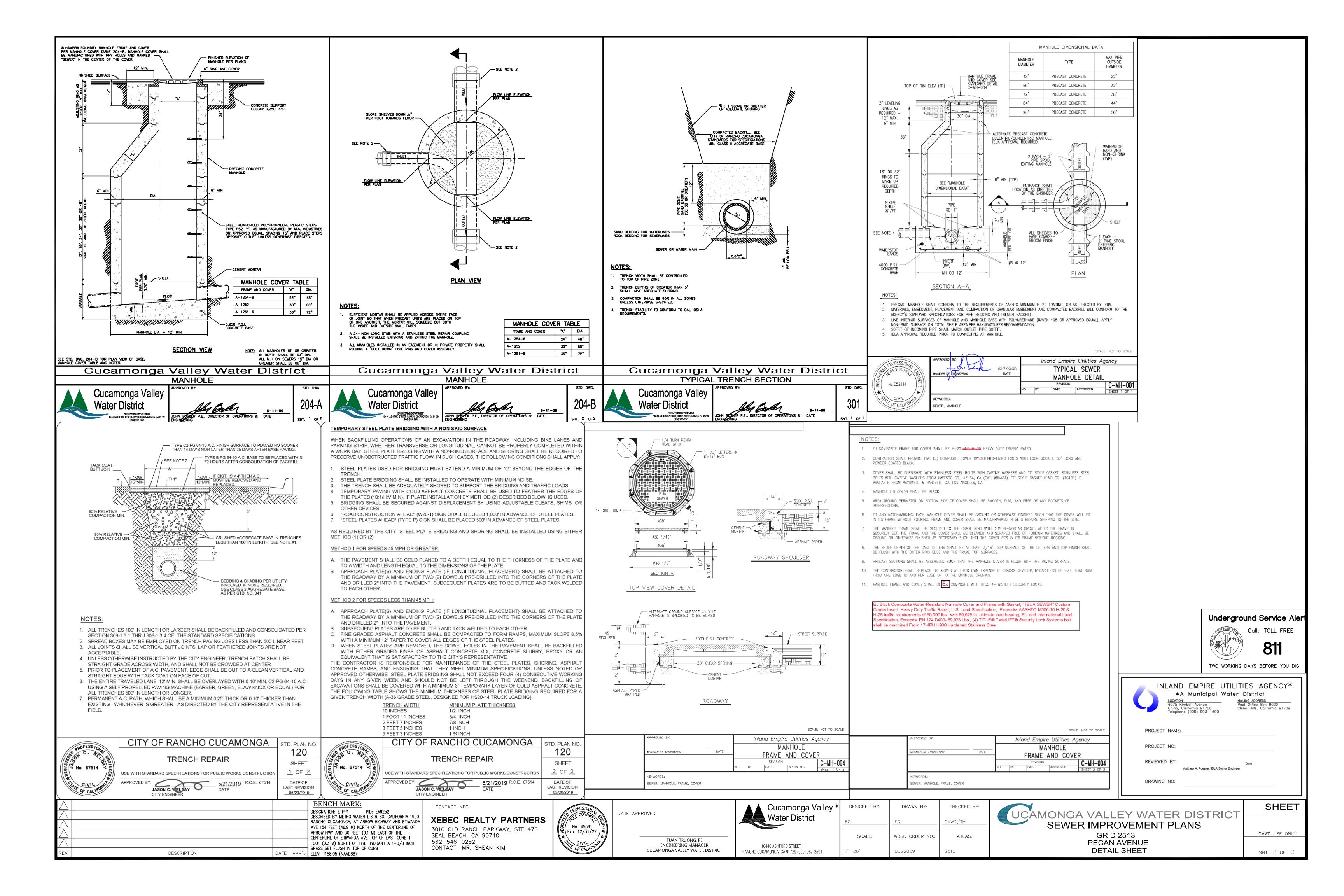
TUAN TRUONG, PE ENGINEERING MANAGER CUCAMONGA VALLEY WATER DISTRICT

DATE APPROVED:

Cucamonga Valley®	DESIGNED BY:	DRAWN BY:	CHECKED BY:
Water District	FC	FC	_CVWD/TM
	SCALE:	WORK ORDER NO.:	ATLAS:
10440 ASHFORD STREET, RANCHO CUCAMONGA, CA 91729 (909) 987-2591	_1"=20'	_DD22009	_2513







#### ATTACHMENT B

General Location for Connection CW-23

CW-24 Flows Max Flow based on use

ADWF=.0.00064 MGD

System Peaking for IEUA's Hydraulic Modeling IEUA Peaking Factor

PDWF=0.0022 MGD PWWF=0.0029 MGD





RECEIVE AND FILE

**3A** 



## Regional Sewerage Program Policy Committee Meeting

## AGENDA Thursday, March 2, 2023 3:30 p.m. Teleconference Call

To prevent the spread of COVID-19, the Regional Sewerage Program Policy Committee Meeting will be held remotely by teleconference.

Teams Conference Link: https://teams.microsoft.com/l/meetup-

join/19%3ameeting OTMyZTdmNzltNjBiMC00NmZmLTkzOWYtOTdmZDc5MDlwNGQw%40thread.v 2/0?context=%7b%22Tid%22%3a%224c0c1e57-30f3-4048-9bd2cd58917dcf07%22%2c%22Oid%22%3a%22e1bc1283-cd05-48d8-a67b-d2365bb08cc2%22%7d

Teleconference: 1-415-856-9169/Conference ID: 214 918 877#

This meeting will be conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling the number provided above. Alternatively, you may email your public comments to Recording Secretary Laura Mantilla at <a href="mantilla@ieua.org">Imantilla@ieua.org</a> no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

Call to Order/Flag Salute

Roll Call

**Public Comment** 

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Comments will be limited to three minutes per speaker.

Regional Sewerage Program Policy Committee Meeting Agenda March 2, 2023 Page 2 of 2

#### Additions to the Agenda

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

#### 1. Technical Committee Report (Oral)

#### 2. Action Item

- A. Approval of November 3, 2022 Policy Committee Meeting Minutes
- B. Carbon Canyon Water Recycling Facility Asset Management and Improvements Construction Contract Award

#### 3. Informational Items

A. Regional Contract Negotiation Update (Oral)

#### 4. Receive and File

- A. Building Activity Report
- B. Recycled Water Distribution Operations Summary
- C. Operations and Maintenance Department Quarterly Update

#### 5. Other Business

- A. IEUA General Manager's Update
- B. Committee Member Requested Agenda Items for Next Meeting
- C. Committee Member Comments
- D. Next Meeting TBD

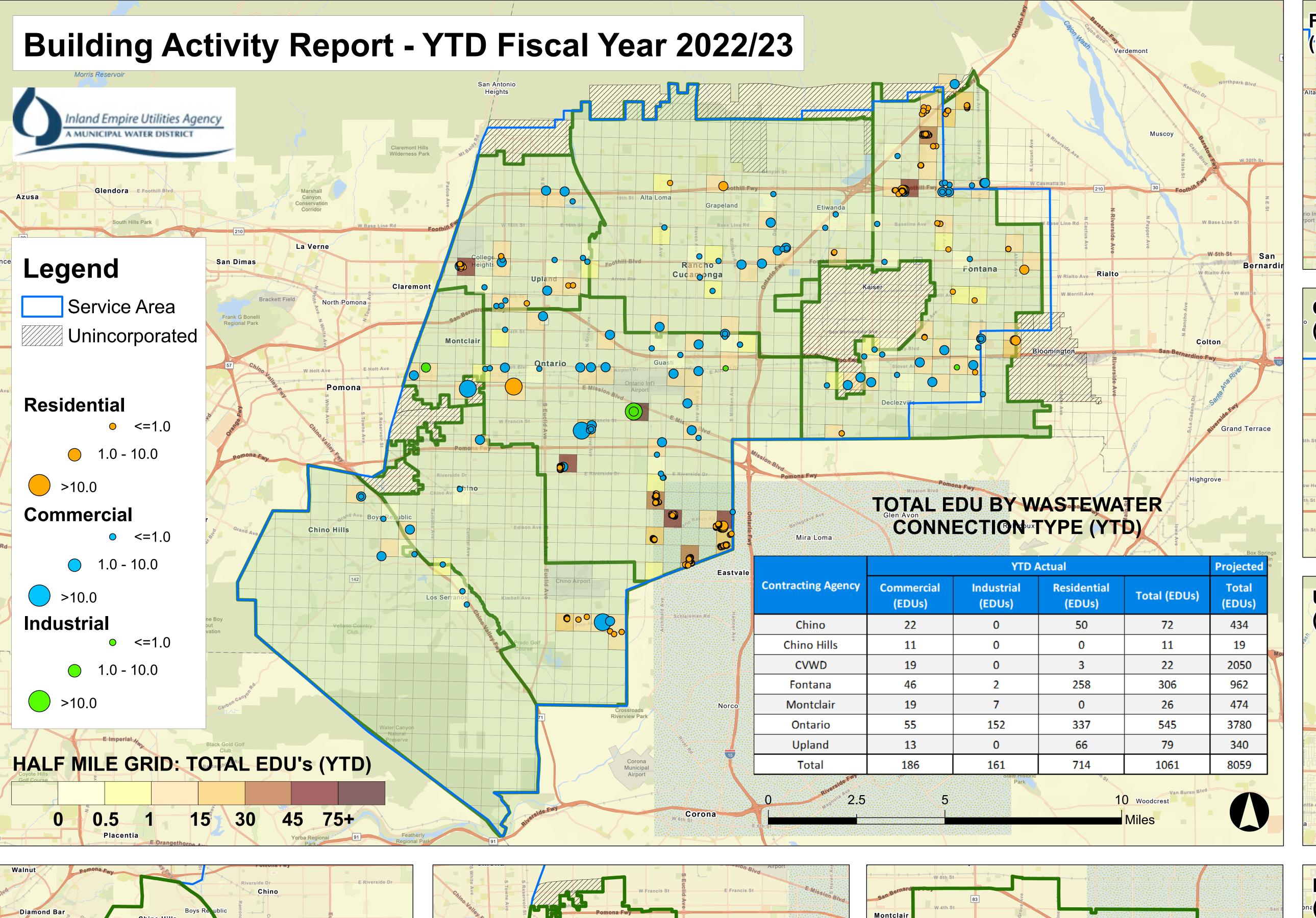
#### Adjourn

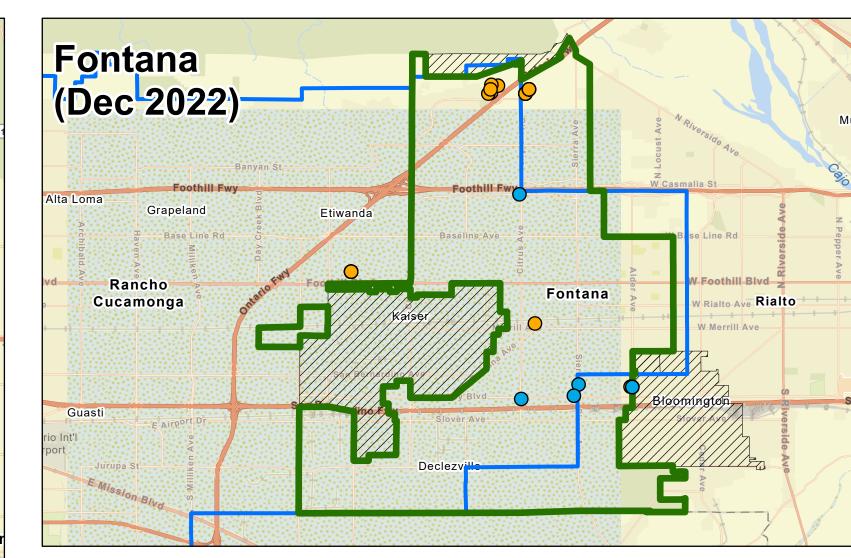
#### **DECLARATION OF POSTING**

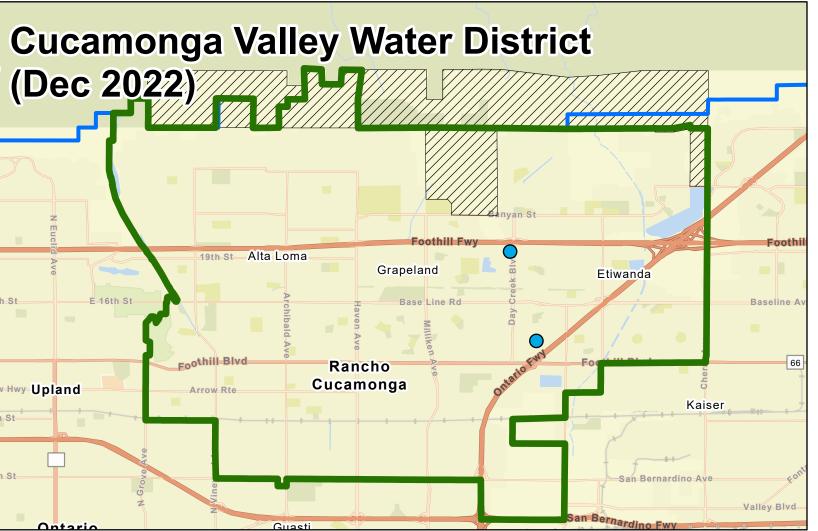
I, Laura Mantilla, Executive Assistant of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at <a href="https://www.ieua.org">www.ieua.org</a> at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Laura Mantilla at (909) 993-1944 or <a href="maintilla@ieua.org"><u>lmantilla@ieua.org</u></a> 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

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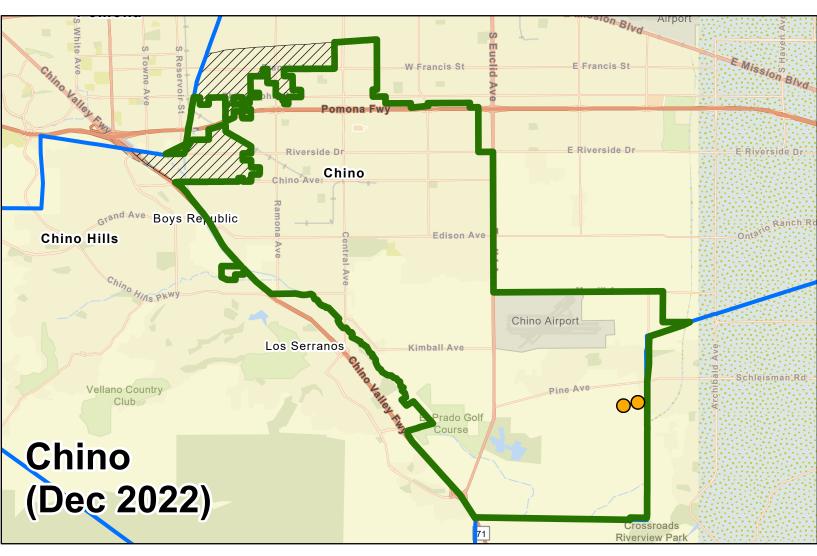


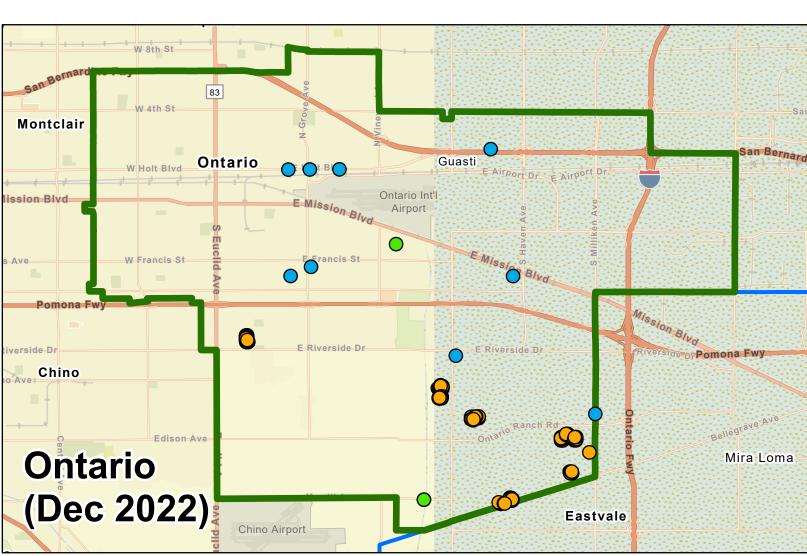


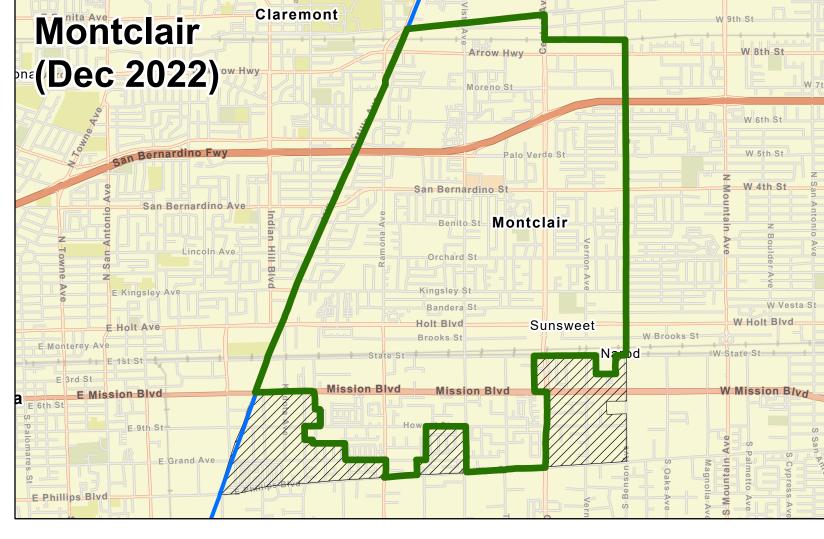






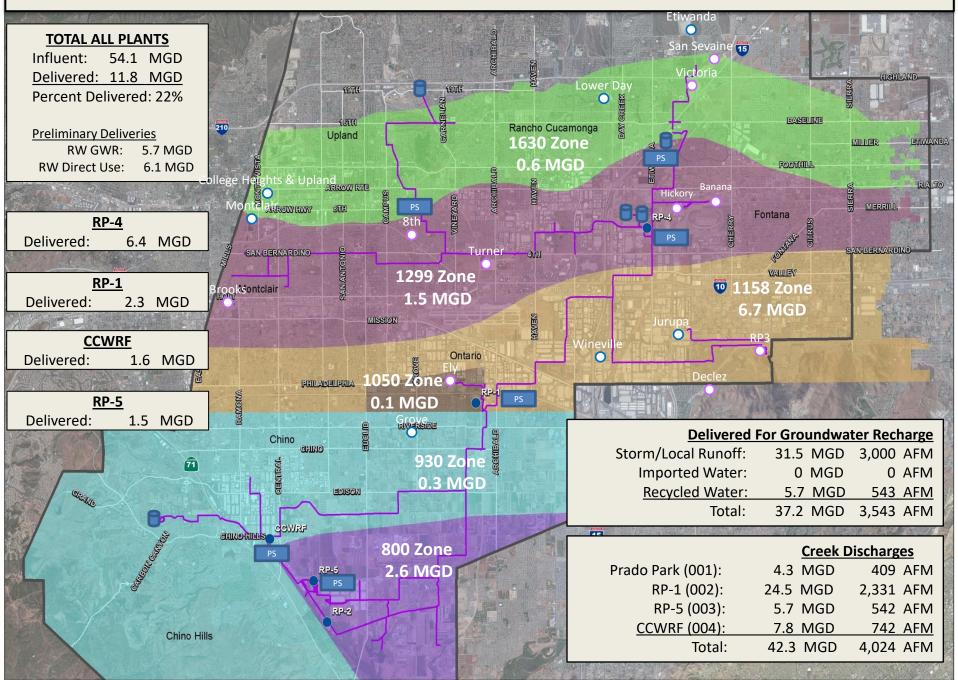






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#### **IEUA RECYCLED WATER DISTRIBUTION – JANUARY 2023**



Recycled Water Recharge Deliveries - January 2023 (Acre-Feet)

Basin	1/1-1/7	1/8-1/14	1/15-1/21	1/22-1/31	Month Actual	FY To Date Actual	Deliveries are draft until reported as final and do not included evaporative losses.
Ely	0.0	0.0	0.0	0.0	0.0	137	
Banana	0.0	0.0	0.0	0.0	0.0	595	
Hickory	0.0	0.0	0.0	0.0	0.0	121	
Turner 1 & 2	0.0	0.0	0.0	0.0	0.0	149	
Turner 3 & 4	0.0	0.0	0.0	0.0	0.0	149	
8th Street	0.0	0.0	0.0	2.8	2.8	785	
Brooks	0.0	0.0	0.0	2.9	2.9	564	
RP3	52.4	51.3	126.8	282.1	512.6	4835	
Declez	0.0	0.0	0.0	0.0	0.0	31	
Victoria	14.7	0.0	0.0	7.4	22.1	383	
San Sevaine	2.4	0.0	0.0	0.0	2.4	2070	
Total	69.5	51.3	126.8	295.2	542.8	9,670	10,151 AF previous FY to day actual

