Regional Sewerage Program
Technical Committee Meeting

AGENDA
Thursday, August 25, 2022
2:00 p.m.
Teleconference Call

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

Teams Conference Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmRmY2FmMDYtNTBmMS00MjA5LTk3ODgtZDkyY2U3MTRmZGYz%40thread.v2/0?context=%7b%22Tid%22%3a%224c0c1e57-30f3-4048-9bd2-cd58917dcf07%22%2c%22Oid%22%3a%22329ec40e-eb94-4218-9621-6bfa0baa9697%22%7d

Teleconference: (415) 856-9169/Conference ID: 715 477 121#

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. Comments may also be submitted by email to the Recording Secretary Laura Mantilla at lmantilla@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.

(Continued)

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. **Action Items**
   A. Approval of July 28, 2022 Technical Committee Meeting Minutes
   B. Request by the City of Fontana for a Regional Sewage Connection (F-35)
   C. Request to Establish Ad-hoc BAR Subcommittee

2. **Informational Items**
   A. Engineering & Construction Management Quarterly Project Updates
   B. Return to Sewer Study (*Oral)*
   C. 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 – September 29, 2022

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 lmantilla@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 JULY 28, 2022

CALL TO ORDER

A regular meeting of the IEUA/Regional Sewerage Program – Technical Committee was held via teleconference on Thursday, July 28, 2022. Committee Chair Amanda Coker/Cucamonga Valley Water District called the meeting to order at 2:00 p.m. Recording Secretary Laura Mantilla took roll call and established a quorum was present.

ATTENDANCE via Teleconference

COMMITTEE MEMBERS PRESENT:

Dave Crosley	City of Chino
Ron Craig	City of Chino Hills
Amanda Coker	Cucamonga Valley Water District (CVWD)
Steve Stanton	City of Montclair
Chris Quach	City of Ontario
Braden Yu	City of Upland
Nicole DeMoet	City of Upland
Christiana Daisy	Inland Empire Utilities Agency (IEUA)

COMMITTEE MEMBER ABSENT:

Armando Martinez	City of Fontana

OTHERS PRESENT:

Gull Nawaz	CVWD
Jiwon Seung	CVWD
Jerry Burke	IEUA
Pietro Cambiaso	IEUA
Javier Chagoyen-Lazaro	IEUA
Kristine Day	IEUA
Lucia Diaz	IEUA
Don Hamlett	IEUA
Elizabeth Hurst	IEUA
Scott Lening	IEUA
Eddie Lin	IEUA

OTHERS PRESENT (continued):

Laura Mantilla	IEUA
Jason Marseilles	IEUA
William McDonnell	IEUA
Liza Muñoz	IEUA
Cathleen Pieroni	IEUA
Matt Poeske	IEUA
Jesse Pompa	IEUA
Jeanina Romero	IEUA
Ken Tam	IEUA

PUBLIC COMMENTS

There were no public comments.

ADDITIONS/CHANGES TO THE AGENDA

There were no additions/changes to the agenda.

1. ACTION ITEMS

A. APPROVAL OF JUNE 30, 2022 TECHNICAL COMMITTEE MEETING MINUTES

Motion: By Dave Crosley/City of Chino and seconded by Ron Craig/City of Chino Hills to approve the meeting minutes of the June 30, 2022, Regional Technical Committee meeting by the following vote:

Ayes: Crosley, Craig, Daisy, Stanton, Quach, Yu, Coker
Noes: None
Absent: Martinez
Abstain: None
The motion passed by a vote of 7 ayes, 0 noes, 0 abstain, and 1 absent.

B. REQUEST BY THE CITY OF FONTANA FOR A REGIONAL SEWAGE CONNECTION – MULBERRY (F-34)

Jason Marseilles/IEUA provided an overview of the City of Fontana's request for a regional sewage connection (F-34). He stated that the IEUA evaluated the capacity of Fontana's interceptor and the downstream regional system and determined that there is sufficient capacity for the development.

Nicole deMoet/City of Upland stated she had joined the call however she was having technical issues with the microphone. She informed the Committee that she will represent the City of Upland.

Motion: By Chris Quach/City of Ontario and seconded by Nicole deMoet/City of Upland to recommend that the Regional Technical Committee approve the request by the City of Fontana for a new regional connection point to the Fontana Interceptor (F-34) by the following vote:

Ayes: Crosley, Craig, Daisy, Stanton, Quach, deMoet, Coker
Noes: None
Absent: Martinez
Abstain: None

The motion passed by a vote of 7 ayes, 0 noes, 0 abstain, and 1 absent.

2. INFORMATIONAL ITEMS

A. OPERATIONS AND MAINTENANCE DEPARTMENT QUARTERLY UPDATE

Lucia Diaz/IEUA gave an update on safety statistics, the Operations & Maintenance staff stretch exercise pilot program, Agency-wide NPDES permit, installation of CL2 Analyzers at RP-1 and RP-4, RP-5 Title V AQMD permit, RP-1 and RP-5 annual Title V AQMD inspections, educational outreach, and mutual aid coordination meetings. Ms. Diaz also discussed operational challenges due to ammonia, an increase in fats, oils, grease, and ragging at some of the facilities. She concluded by providing an update on IERCA's milestones and reported that the Technical Resources division staff attended a tour of the Hyperion Water Reclamation Plant.

B. RETURN TO SEWER STUDY UPDATES

Ken Tam/IEUA stated that Data Collaborative completed the analysis for commercial and industrial categories and analysis for the City of Ontario's sewer masterplan flows. IEUA asked Data Collaborative to review the residential dataset on the impacts of accessory dwelling units (ADUs). IEUA will be scheduling a meeting with the Technical sub-group in August for Data Collaborative to share their analysis of the expanded dataset.

Discussion ensued on the state requirements regarding ADUs and impacts on connection fees.

C. OPERATIONS & COMPLIANCE UPDATES

Mr. Tam reported on July 19, after routine flushing maintenance of the sludge line from RP-5 to RP-2, Operations staff discovered sludge seeping out of the pavement on El Prado Road. The collections team, engineering, and compliance were notified of the incident along with the City of Chino. A section of the pipeline was repaired. The spill was recovered and classified as a category 2. Mr. Tam shared pictures of the corroded pipe and thanked the City of Chino and the Chino Police department for assisting with the clean-up effort and traffic control.

Mr. Craig asked if the pipe is scheduled for preventive maintenance so that this does not occur again. Ms. Diaz stated that the pipeline will be abandoned in the next three years due to the RP-5 expansion.

3. RECEIVE AND FILE

Items 3A and 3B were received and filed by the Committee.

A. BUILDING ACTIVITY REPORT

B. RECYCLED WATER DISTRIBUTION – OPERATIONS SUMMARY

4. OTHER BUSINESS

A. COMMITTEE MEMBER REQUESTED AGENDA ITEMS FOR NEXT MEETING

There were no requested agenda items.

B. COMMITTEE MEMBER COMMENTS

Christiana Daisy/IEUA noted that the incorrect agenda meeting packet was posted on IEUA's website and that during the meeting the website was updated to display the correct agenda and packet

On August 4, IEUA will be holding an in-person informational workshop on the Chino Basin Program (CBP) for water and wastewater stakeholders and partners at the Chino Hills Community Center. On August 17, IEUA will host a CBP Expo before the IEUA board meeting for staff to provide updates and information about the project.

C. NEXT MEETING – AUGUST 25, 2022

ADJOURNMENT – Chair Coker adjourned the meeting at 2:30 p.m.

Prepared by:

Laura Mantilla, Recording Secretary

ACTION ITEM

1B

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: August 25, 2022

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-35, Project EN0000000145)

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-35).

BACKGROUND

On July 28, 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 114+00 through an existing manhole, located on the west side of this tributary area, to the existing 54-inch Fontana Interceptor Relief Sewer.

The connection point is required to serve a 56.28 acre tributary area with an initial 64,694 square feet industrial warehouse constructed on 2.72 acres of this area. The proposed tributary area is located north of Jurupa Avenue and south of Santa Ana Avenue along Calabash Avenue. Flows have been considered for the entire 56.28-acre area. An overall vicinity map is provided (Attachment "B").

Average dry weather and peak wet dry weather flows were provided by the City of Fontana. The IEUA peak dry weather flow was obtained using IEUA's peaking factor:

SUMMARY OF FLOW RATES UTILIZED

Fontana Regional Connection F-35 Average Dry Weather Flow (ADWF) Rate =0.1686MGD
Peak Dry Weather Flow (PDWF) Rate = 0.3690 MGD
Peak Wet Weather Flow (PWWF) Rate =0.4950 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 depth to Diameter ratio (d/D) of 0.14 and an average flowrate of 2.72 MGD. The full capacity of the 54-inch sewer line is 64.72 MGD. This leaves an available capacity of 62.00 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

July 28, 2022, City of Fontana Regional Interceptor Request

FONTANA
CALIFORNIA

JULY 28, 2022

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

Subject: City of Fontana Regional Connection Request
Calabash Industrial Building
Jurupa Avenue & Calabash

Dear Mr. Poeske,

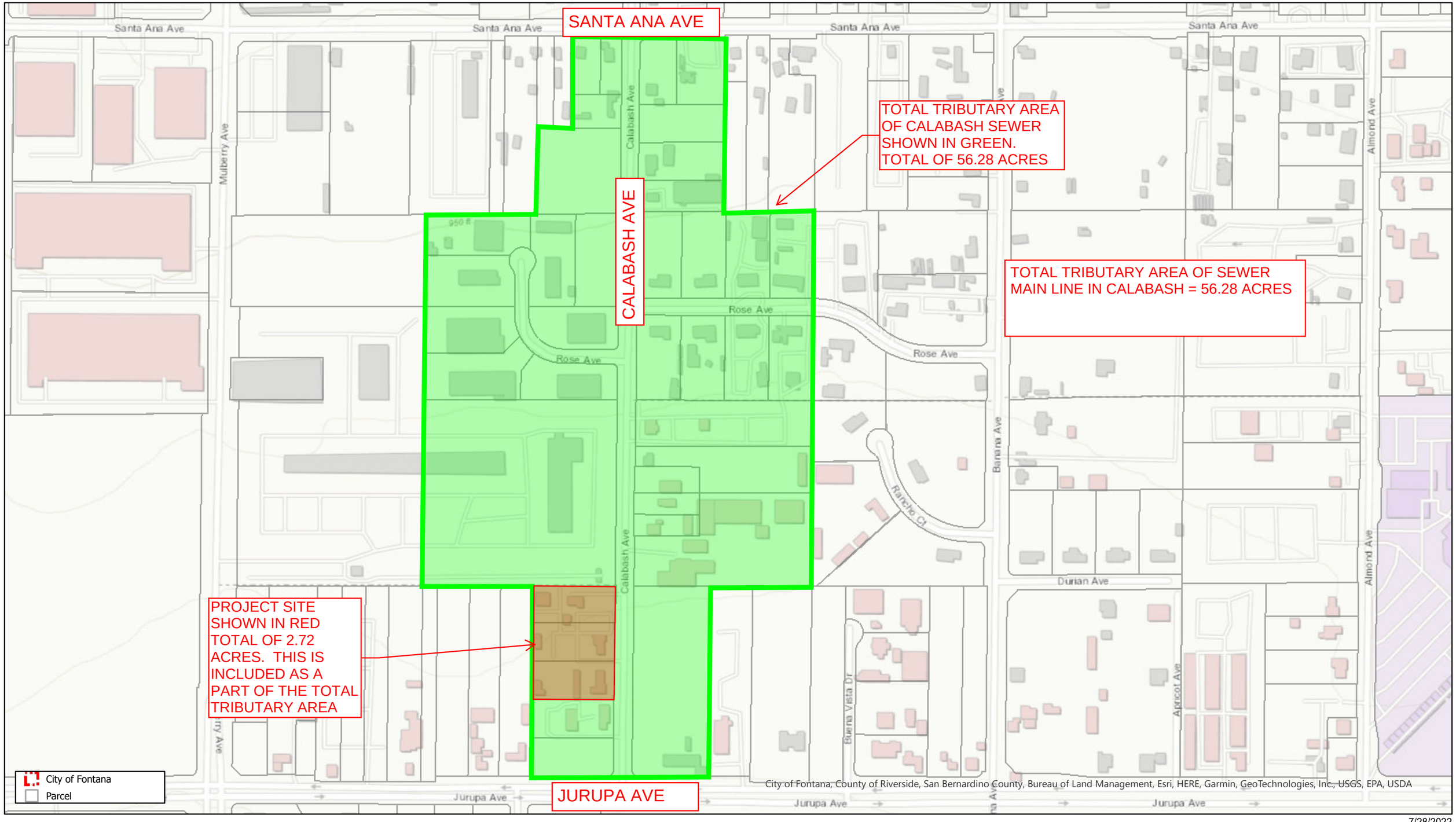
On behalf of the applicant, Panattoni Development Company, Inc, this letter is a request to connect to a sewer main maintained and serviced by IEUA, located in the City of Fontana at the intersection of Jurupa Avenue and Calabash Avenue (see attached vicinity map). There is currently no available Fontana maintained sewer that can feasibly be reached by this site.

A sewer analysis was prepared and has been provided for your use by Thienes Engineering. The proposed sewer in Calabash has a total tributary area of 56.28 acres which is shown outlined in green on the Sewer Study Tributary Area Exhibit. The analysis determined the sewer main line would generate an average flow of 0.1686 MGD and a peak flow of 0.4847 MGD from the total tributary area of 56.28 acres. The sewer in Calabash Ave is proposing to channel the flows using a 10" VCP sewer mainline along calabash and connecting into an existing 24" sewer lateral at M.H. No 62R STA. 114+00 of IEUA plan D4573. Sewer study includes all areas that that would be tributary to this sewer mainline in Calabash bounded by Jurupa Ave in the south and Santa Ana Ave in the north which is shown in green on the Sewer Study Tributary Area Exhibit. Panattonie Development Company, Inc specifically is proposing a 64,694 sf industrial warehouse, including a potential office space on an approximate 2.72 acre site located at 11240 Calabash Ave which is included as a part of the total tributary area shown in red on the Sewer Study Tributary Area Exhibit.

If you have any questions or need additional information, please do not hesitate to contact this office.

Travis Almgren
Assistant Engineer

TRIBUTARY AREA MAP



FONTANA CALIFORNIA

0 0.04 0.08 mi

Scale 1 : 4,514

N W E S

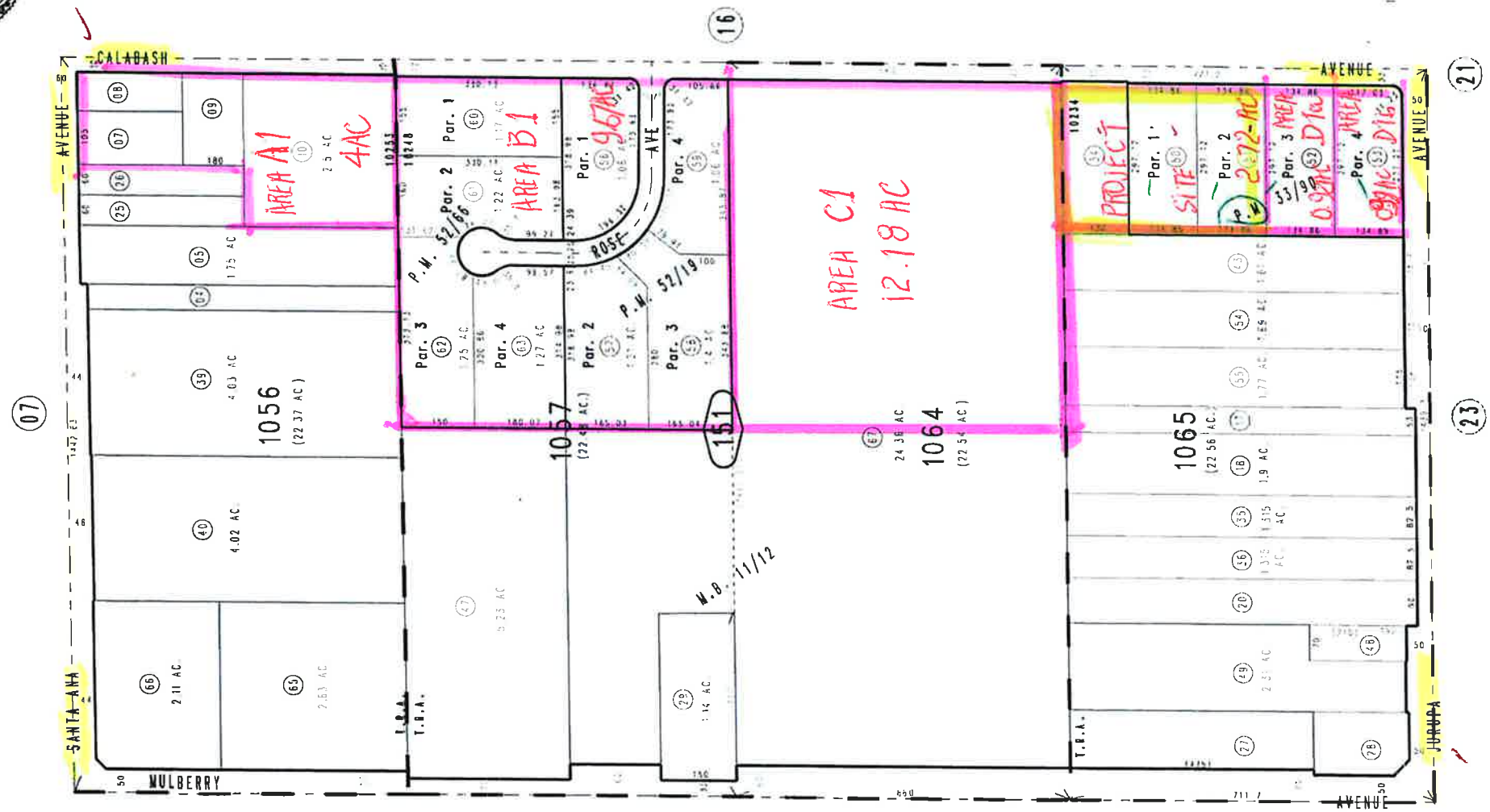
7/28/2022
City of Fontana

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY

Semi-Tropic Land & Water Co.
M.B. 11/12

City of Fontana
Tax Rate Area
10234 10248 10253

0236 - 15



Parcel Map No. 4459, P.M. 52/66
Parcel Map No. 5313, P.M. 52/19
Parcel Map No. 3468, P.M. 33/90

0238 / 11

Ptn. S.W.1/4, Sec. 27
T.1S., R.6W.

Assessor's Map
Book 0236 Page 15
San Bernardino County

REVISED
01/05/16 RM-MC
10/26/20 RU

February 2004

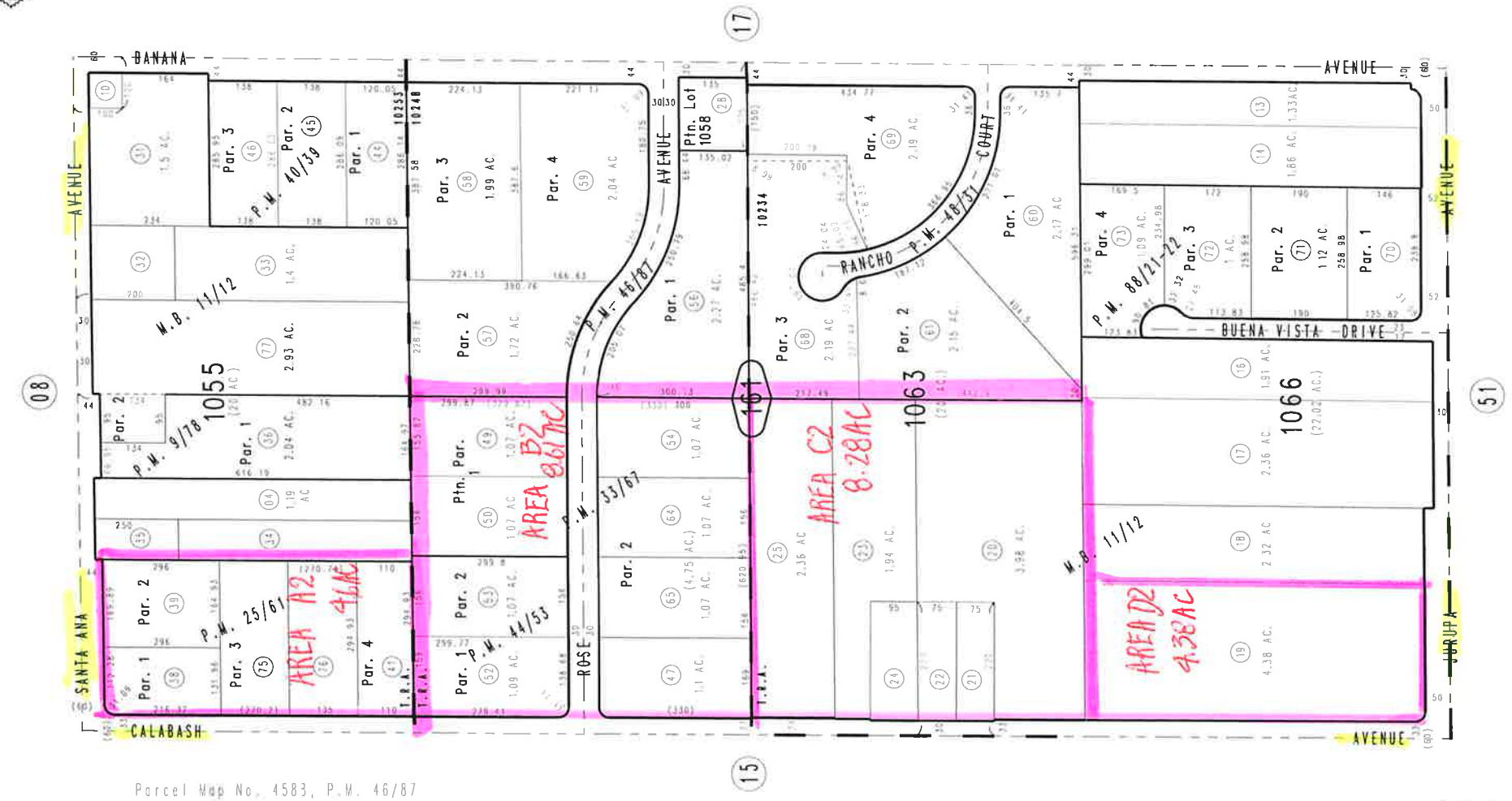
THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY

Semi-Tropic Land & Water Co.
M.B. 11/12

City of Fontana
Tax Rate Area
10234 10248 10253

0236 - 16

1"=200'



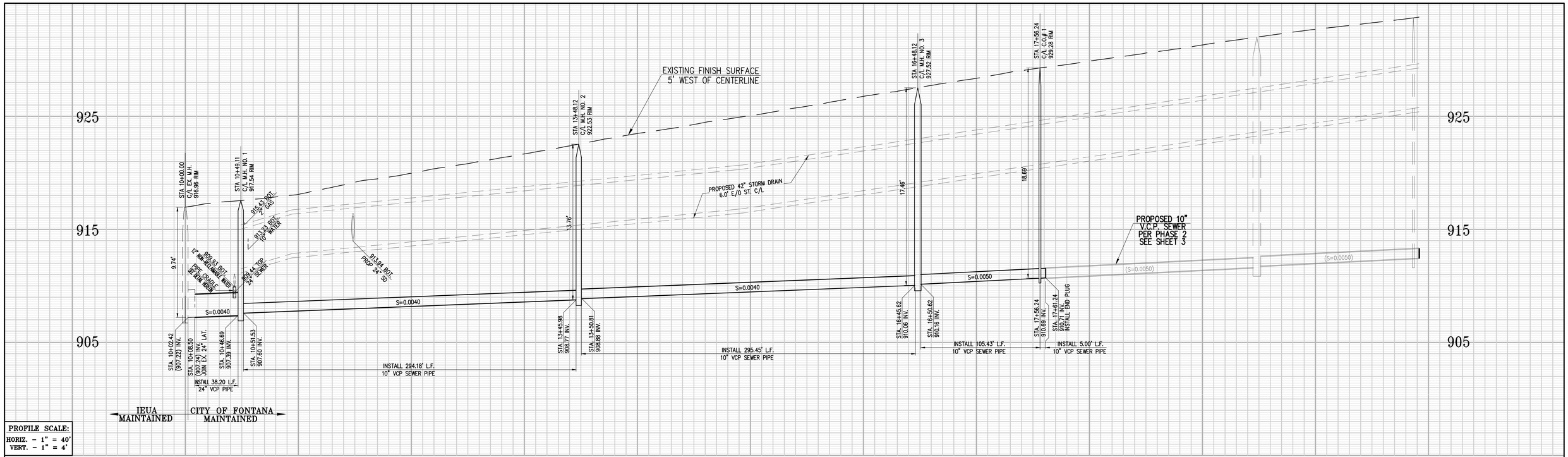
Parcel Map No. 4583, P.M. 46/87
Parcel Map No. 4963, P.M. 44/53
Parcel Map No. 4451, P.M. 40/39
Ptn. Parcel Map No. 3625, P.M. 33/67
Parcel Map No. 2835, P.M. 25/61
Parcel Map No. 1113, P.M. 9/78
Parcel Map No. 6572, P.M. 88/21-22
Parcel Map No. 5083, P.M. 48/31

Ptn. S.W.1/4, Sec. 27
T.1S., R.6W.

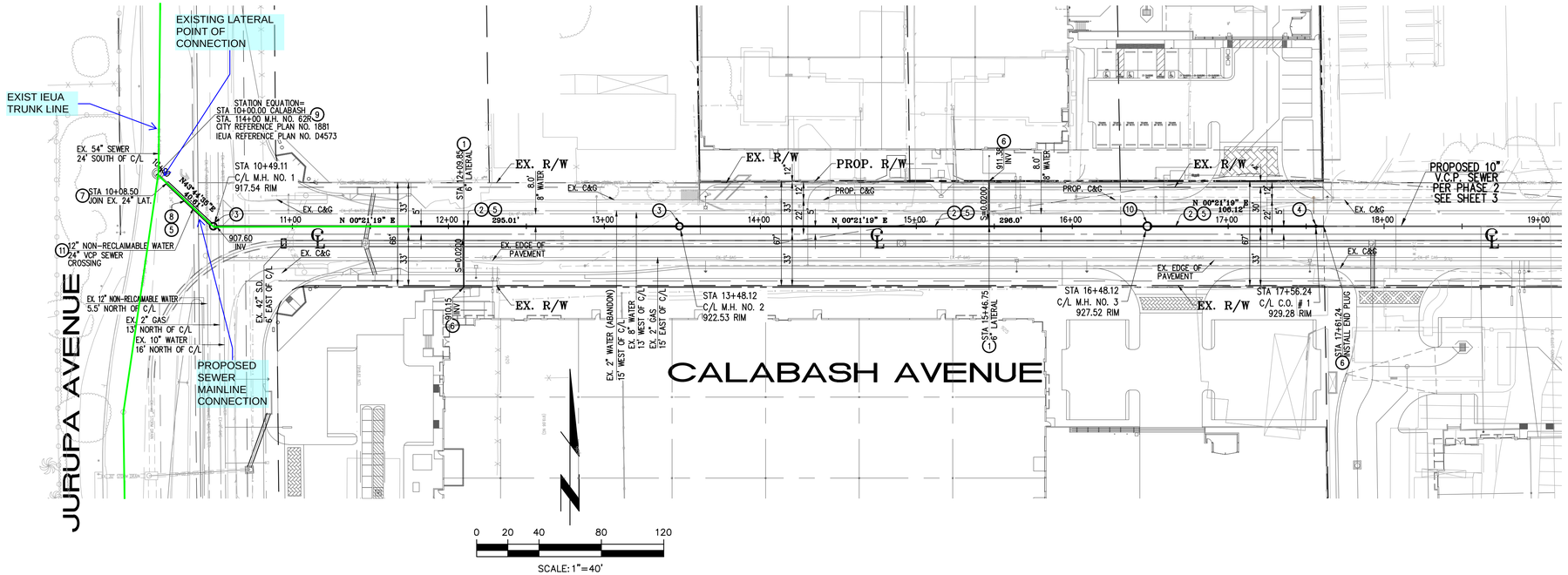
Assessor's Map
Book 0236 Page 16
San Bernardino County

REVISED
11/12/20 KA

February 2004

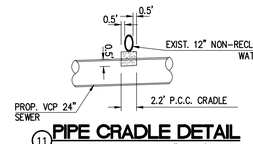


PROFILE SCALE:
HORIZ. - 1" = 40'
VERT. - 1" = 4'



PHASE 1
SEWER CONSTRUCTION NOTES:

1. INSTALL 6" VCP SEWER LATERAL AND CLEANOUT PER CITY OF FONTANA STD. PLAN NO. 2005
2. INSTALL 10" EXTRA STRENGTH VCP SEWER PIPE WITH COMPRESSION JOINTS
3. CONSTRUCT 48" SEWER MANHOLE PER IEUA STANDARD C-MH-004, WITH FRAME AND COVER PER IEUA STANDARD C-MH-004. SEE DETAILS ON SHEET 4.
4. INSTALL 10" SEWER TERMINAL CLEANOUT PER CITY OF FONTANA STD. PLAN NO. 2004
5. TRENCH AND BEDDING PER CITY OF FONTANA STD. PLAN NO. 1008
6. INSTALL PLUG ON EXTRA STRENGTH VCP SEWER PIPE
7. REMOVE EXISTING PLUG AND TIE INTO EXISTING 24" SEWER LINE
8. INSTALL 24" EXTRA STRENGTH VCP SEWER PIPE
9. EXISTING IEUA MANHOLE, PROTECT IN PLACE
10. CONSTRUCT 60" SEWER MANHOLE PER IEUA STANDARD C-MH-004, WITH FRAME AND COVER PER IEUA STANDARD C-MH-004, WITH SAFETY LEDGE PER S.P.P.W.C. STANDARD 330-3. SEE DETAILS ON SHEET 4.
11. CONSTRUCT P.C.C. PIPE CRADLE PER DETAIL HEREON



(11) PIPE CRADLE DETAIL

HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 5'

NOTES:
1. CONCRETE ENCASEMENT SHALL BE INSTALLED AS REQUIRED BY THE SPECIFICATIONS OR DIRECTED BY THE ENGINEER
2. CONCRETE SHALL BE CLASS 420-C-2000.

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)

DIGALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE 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.

REGISTERED PROFESSIONAL ENGINEER
REINHARD STENZEL
R.C.E. NO. 56155
Exp. 12-31-22
CIVIL
STATE OF CALIFORNIA

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 Date : 07/12/2022

CITY OF FONTANA, CALIFORNIA
SEWER IMPROVEMENT PLANS
CALABASH AVENUE
PHASE 1
STA. 10+00.00 TO 17+61.52

DRAWN BY: J.P.
DESIGNED BY: J.P.
CHECKED BY: J.P.
APPROVED BY:
INTERIM CITY ENGINEER R.C.E. 44226 DATE:
SCALE:
DATE:
DRAWING NO.: 6261 2/4

Last Update: 7/11/22
O:\3900-3999\3959\SEWER\3959SEW-02.dwg


NOTE: CONTRACTOR PROVIDED GRAVEL BEDDING TO 3/4 I.D. OF PIPE FOR ENTIRE LENGTH OF JOB IN LIEU OF CLASS 'C' BEDDING (UP TO AND INCLUDING MANHOLE NO. 65R)
4" PVC IRRIGATION LINE; 3" PVC ELECTRICAL CONTROL
TELEPHONE CONDUITS
EXISTING SURFACE AT ℄ OF PIPE
EXISTING 60" S.D.
PROPOSED SURFACE AT ℄ OF PIPE
4" PVC IRRIGATION AND 3" PVC ELECTRICAL CONTROL
SEE DWG. C-6
SEE DWG. C-8
MATCH LINE
STA. 114+00 - M.H. No. 62R 84" DIA. - 20' RIGHT OF ℄
STA. 114+40.02 ℄ CALABASH RD.
STA. 115+52.07 - M.H. No. 63R 72" DIA. - 50' RIGHT OF ℄
STA. 120+50 - M.H. No. 64R 72" DIA. - 50' RIGHT OF ℄
STA. 122+34.07 ℄ BUENA VISTA DR.
STA. 123+96 - M.H. No. 65R 72" DIA. - 50' RIGHT OF ℄
30" S.D.
INVERT NEW 54" P.V.C. LINED R.C.P. SEWER S = 0.0025
INVERT NEW 42" P.V.C. LINED R.C.P. SEWER, S = 0.0008
INVERT NEW 30" V.C.P. OR SPIROLITE RSC 160 SEWER, S= 0.0131
STA. 113+50 EL. 904.39
STA. 114+00 EL. 904.52 (54") EL. 905.52 (42")
STA. 115+52.07 EL. 905.64
STA. 120+50 EL. 906.04
STA. 123+96 EL. 906.31 (42") EL. 907.31 (30")
STA. 125+50 EL. 909.35
920
910
900
50.00' CLASS C BEDDING PER DWG. C-17 D-1600
155.00' CLASS C BEDDING PER DWG. C-17 D-1400
497.93' CLASS C BEDDING PER DWG. C-17 D-1400
346.00' 344.00' CLASS C BEDDING PER DWG. C-17 D-1400
154.00' 156.00' CLASS C BEDDING PER DWG. C-17 FOR VCP CLASS A-V BEDDING PER DWG. C-17 FOR SPIROLITE
114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00
LIMIT OF SCHEDULE 1 INCLUDING MANHOLE No. 65R
LIMIT OF SCHEDULE 2
"AS-BUILT" DRAWING
DATE
NORTH
FUTURE SEWER
TIE-IN LOCATION TO EXISITING 24" LATERAL AT MANHOLE STATION 114+00
FUTURE R/W
FUTURE CURB & GUTTER
EXISTING C.B.M.W.D. 12" NRW LINE PER D-3116
5'x1' CONC. HEADWALL
STA. 122+34.07 ℄ BUENA VISTA AVE.
BUENA VISTA DR.
CALABASH RD.
FND. 1" I.P. FLUSH, NO TAG
STA. 114+40.02 ℄ CALABASH RD. FND. 1" I.P. NO TAG
COUNTY OF SAN BERNARDINO
CITY OF FONTANA
FUTURE S
12" NRW
10" W
60" S.D.
42" S
54" S
30" S
B.M. No. 5
STA. 114+00 - M.H. No. 62R 84" DIA. - W/ 24" STUB 25' RIGHT OF ℄ DEFL. ∢ = 11°09'36" RIGHT
STA. 115+52.07 - M.H. No. 63R 72" DIA. - 50' RIGHT OF ℄ DEFL. ∢ = 11°09'36" LEFT
117+83 4" PVC IRRIGATION 3" PVC ELECTRICAL CONTROL
FUTURE CURB & GUTTER
FUTURE R/W
60" R.C.P. S.D.
NEW 42" P.V.C. LINED R.C.P. SEWER
STA. 120+50 - M.H. No. 64R 72" DIA. - 50' RIGHT OF ℄
123+01 4" PVC IRRIGATION, 3" PVC ELECTRICAL CONTROL
STA. 123+96 - M.H. No. 65R 72" DIA. - 50' RIGHT OF ℄
2151200 E
2151600 E
2152000 E
REGISTERED PROFESSIONAL ENGINEER Wilson F. So No. C 21,651 Civil Exp. 9/30/89 STATE OF CALIFORNIA
BENCHMARK
T.B.M. No. 5 - FOUND "□" CUT IN TOP OF CURB AT WEST SIDE OF STORM DRAIN INLET, SOUTH SIDE OF JURUPA & EAST OF CALABASH. ELEV. = 915.63

REV.	REVISION DESCRIPTION	BY	DATE
2	"AS-BUILT" DRAWING	T.W.	1/14/91
1	"AS-BUILT" REVISIONS: (PER BUTIER ENGINEERING, INC. -6/24/90): UTILITY LOCATIONS; BEDDING CHANGED.	T.W.	1/14/91

DESIGNED BY: M.P.P.
DRAWN BY: C.S.E.
CHECKED BY: W.F. SO

PROJECT ENGINEER
MICHAEL PODEGRACZ R.C.E. No. 33445 6-15-89 DATE
SUBMITTED BY
WILSON F. SO R.C.E. No. 21651 6-15-89 DATE

PREPARED BY:
WILSON F. SO & ASSOCIATES, INC.
16018 TUSCOLA RD., SUITE 1, P.O. BOX 368
APPLE VALLEY, CALIF. 92307
(619) 242-2365

APPROVED BY:
C.B.M.W.D. - PROJECT MANAGER 6/16/89 DATE

SCALE: HORIZ.: 1"=40' VERT.: 1"=4'
WORK ORDER NO. 1510-570RR

CHINO BASIN MUNICIPAL WATER DISTRICT
FONTANA INTERCEPTOR RELIEF SEWER PHASE II
JURUPA AVENUE - STA. 113+50 TO STA. 125+50

SHEET 8 OF 18
DRAWING NO. C-7

D-4573-8

SEWER CAPACITY STUDY

FOR

CALABASH INDUSTRIAL BUILDING
11202, 11232, AND 11252 CALABASH AVENUE
FONTANA, CA

PREPARED FOR

CALABASH LPIV 6 LLC
2442 DUPONT DRIVE
IRVINE, CA 92612
PHONE: (949) 296-2989

TEI PROJECT #3959

Date:
JULY 7, 2022

Prepared By:

Thienes Engineering, Inc.
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LA MIRADA, CALIFORNIA 90638
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TABLE OF CONTENTS

LIST OF EXHIBIT

APPENDICES

1. INTRODUCTION

The project of this analysis is to determine if the increased sewer flow discharge from the project site impacts to the existing 54" VCP sewer line on Jurupa Avenue, (where the prosed 10" VCP on Calabash for our project site was connected to existing 24" lateral of the above-mentioned existing main line 54" VCP).

The proposed 10" VCP on Calabash for collecting sewage from the project site. This said sewer line is a separate line for the site as a single user.

2. PROJECT DESCRIPTION:

The project site is located on the west side of Calabash Avenue, north of Jurupa Avenue, in the city of Fontana, California.

The project site encompasses approximately 2.72 acres. Proposed improvements for the site include a warehouse-type building of about 64,694 square feet. The site will have a truck yard on the north side of the building. A vehicle parking will be located along the north and northwest portion of the property. There will be landscaping fronting Calabash Avenue, and throughout the project site.

A proposed 10" sewer pipe will be built on Calabash Avenue; the project site sewage will be collected by the said 10" sewer line. This 10" sewer line will be connected to an existing 24" sewer lateral which discharges sewage to a 54" existing sewer line on Jurupa Avenue

The upstream tributary areas are approximately about 53.56 acres.

The entire site is designated as " Industrial" by the City of Fontana.

Per the City of Fontana's guidelines, the average dry weather flow rate unit for

Light Industrial = 300 GPD/acre

Regional Mixed Use = 3000 GPD/acre

3. SEWER PIPE CAPACITY ANALYSIS.

The existing sewer pipes were analyzed using the City of Fontana Sewer Manual SC-4 chart for a maximum design capacity at half full for pipes less than 15" and at three quarters full for pipes 15" and greater. The chart is based on Kutter's Formula (see Appendix A). The cumulative calculated flow for each segment was compared to the sewer capacity at each segment. The equation for the tributary sewer discharge is:

$$Qave = ZA$$

Where Qave = Average Sewer Discharge (GPD)

Z = Sewage Flow Generation Factor (GPD/acre)

A = Parcel Area (acres)

To account for peak flow rates at various times of the day, peak flow discharge is estimated by:

$$Qpeak = 2.5 \times Qmgd^{0.91}$$

Where Qpeak = Peak Sewer Discharge (MGD)

Qmgd = Average Sewer discharge (MGD)

4. RESULTS AND CONCLUSION

The Kutter's Formula calculation shows that a peak flow upstream at Reach # A1, Reach # A2, Reach # B1, REACH # B2, Reach # C1, Reach # C2, and Reach # D2, Reach Project Site, Reach # D1a, Reach # D1b will be up to 38% of their half-full capacity

This peak flow is below 100% per the guidance provided in the capacity memo.

The maximum D/d ratio of Reach # D1B is .30, below the desired level of .5

In conclusion, per the guidance provided in the sewer capacity memo, it is determined that the proposed project will not have a significant adverse effect on the existing sewer system and no mitigation will be required.

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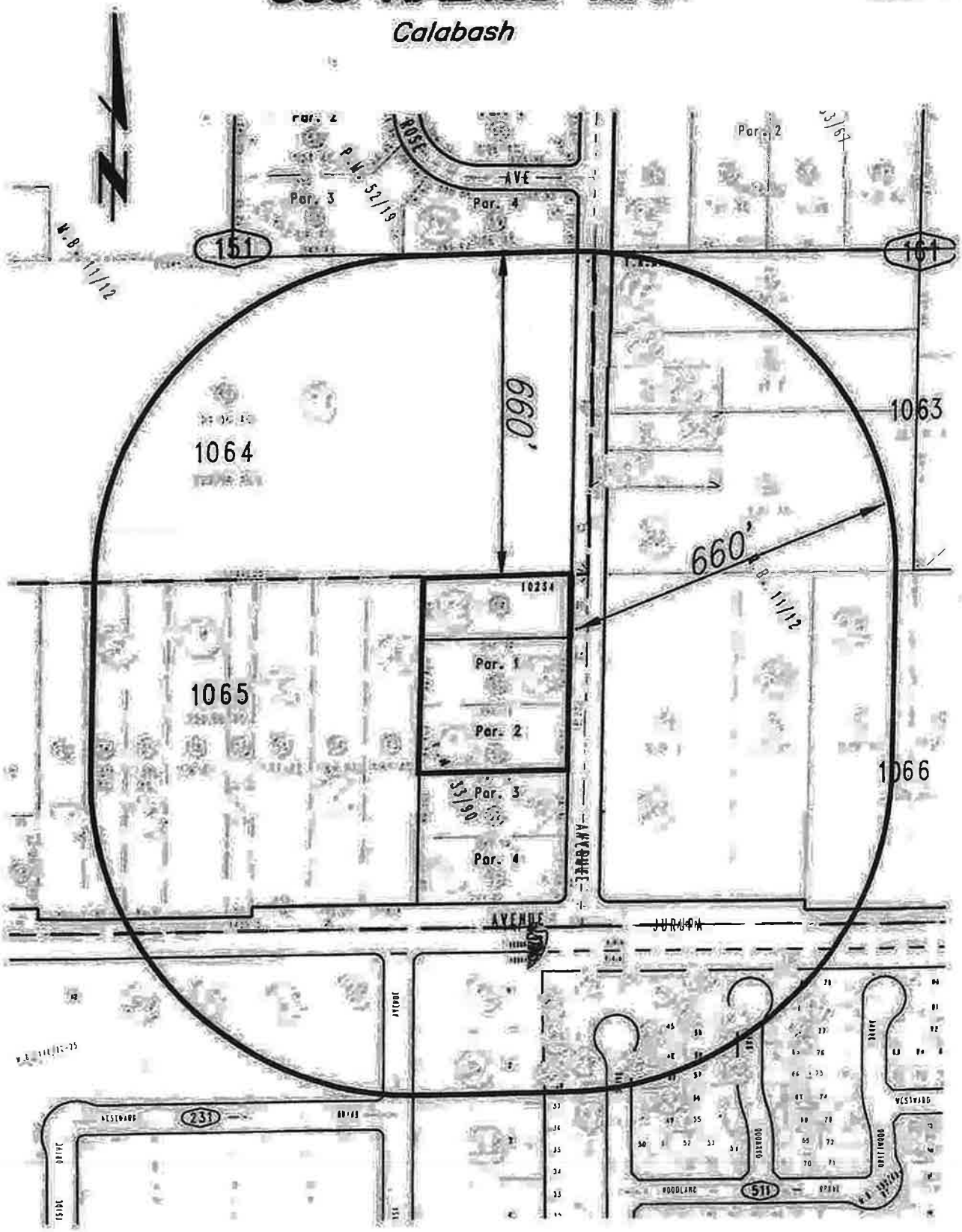
Exhibits:

1. **EXHIBIT NO.1** **660' RADIUS MAP**
2. **EXHIBIT NO.2** **ASSESSOR PARCELS 0236-15 AND 0236-16**
3. **EXHIBIT NO.3** **CONCEPTUAL SEWER PLAN**

660' RADIUS MAP

SHEET 1 OF 1

Calabash



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Prepared April 2021

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY

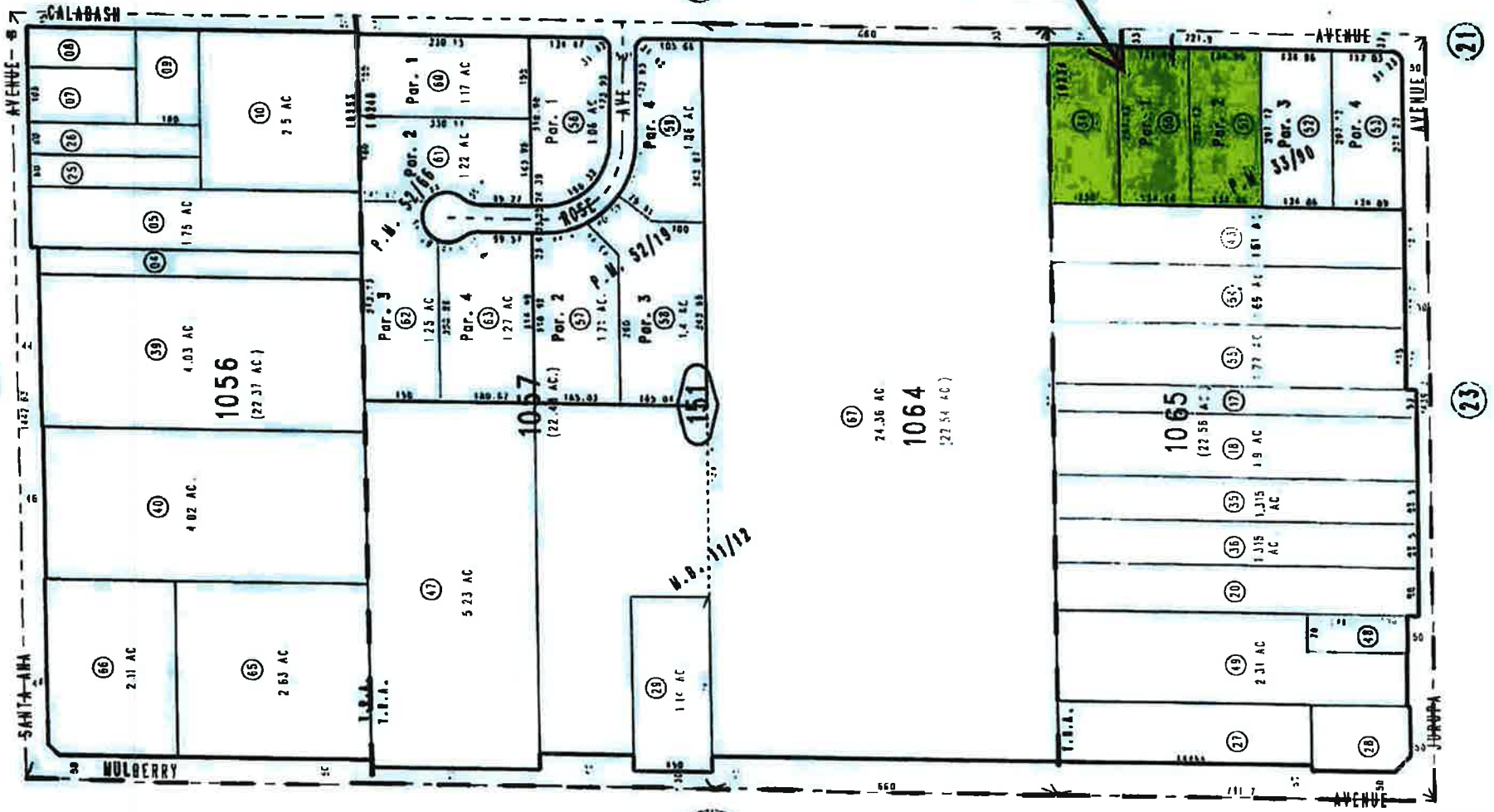
Semi-Tropic Land & Water Co.
M.B. 11/12

Assessor parcel numbers:
0236-151-34
0236-151-50
0236-151-51

City of Fontana
Tax Rate Area
10234 10248 10253

Book
0236 - 15

1"=200'



0238 / 11

Parcel Map No. 4459, P.M. 52/66
Parcel Map No. 5313, P.M. 52/19
Parcel Map No. 3468, P.M. 33/90

Ptn. S.W.1/4, Sec. 27
T.1S., R.6W.

Assessor's Map
Book 0236 Page 15
San Bernardino County

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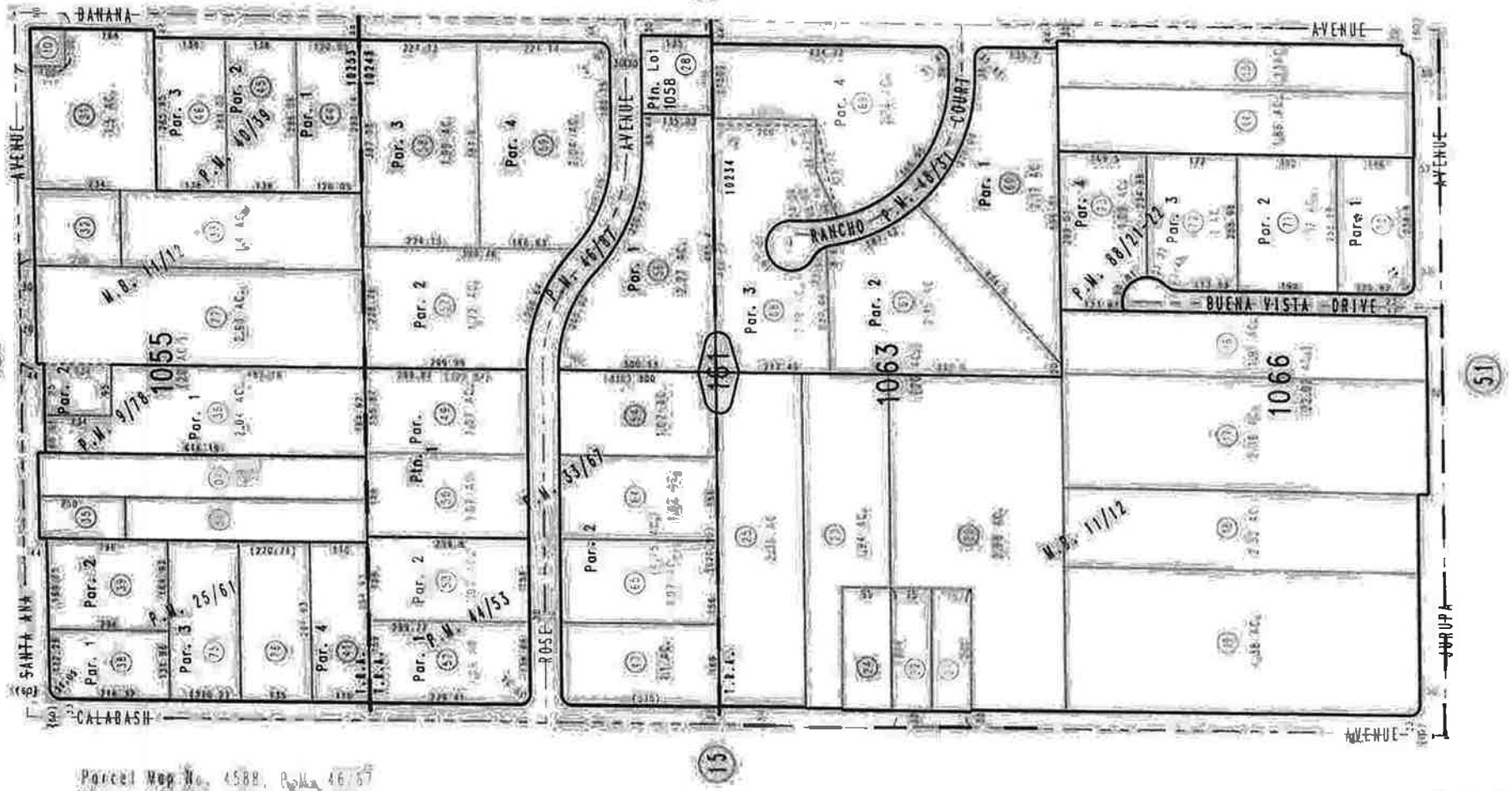
Semi-Tropic Land & Water Co.
M.B. 11/12

City of Fontana
Tax Rate Area
10234 10248 10253

0236 - 16

1" = 200'



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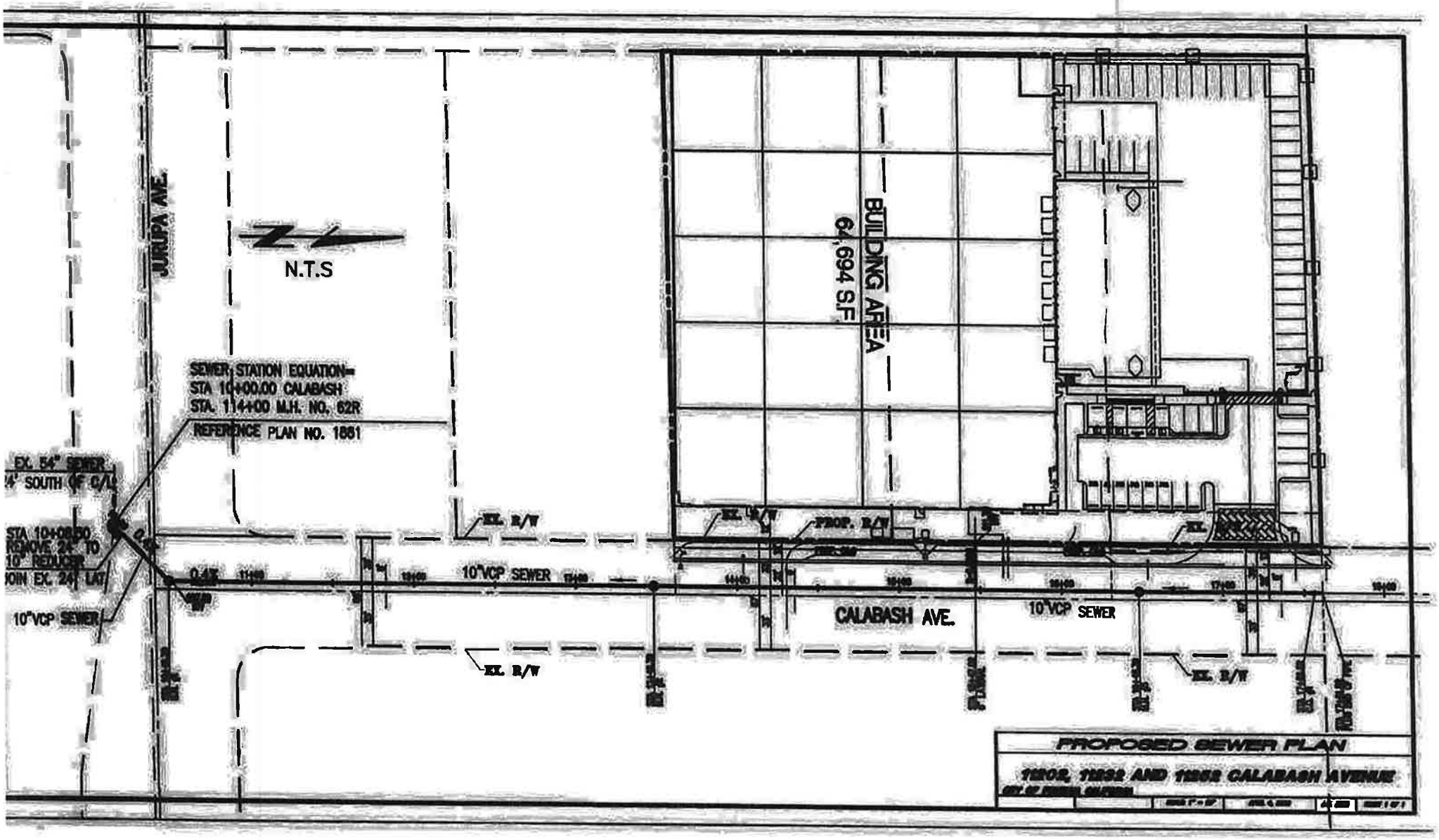
Parcel Map No. 4960, P.M. 46/53
Parcel Map No. 445[illegible], P.M. 40/39
Ptn. Parcel Map No. 362[illegible], P.M. 53/67
Parcel Map No. 2826, P.M. 25/61
Parcel Map No. 1[illegible], P.M. 9/78
Parcel Map No. 6572, P.M. 88/21-22
Parcel Map No. 5085, P.M. 48/31

Ptn. S.W.1/4, Sec. 27
T.1S., R.6W.

Assessor's Map
Book 0236 Page 16
San Bernardino County

REV. SEQ
11/12/20 KA

February 2004


JURUPA AVE.
N.T.S
BUILDING AREA
64,694 S.F.
SEWER STATION EQUATION=
STA 10+00.00 CALABASH
STA. 114+00 M.H. NO. 62R
REFERENCE PLAN NO. 1861
EX. 54" SEWER
4' SOUTH OF C/L
STA 10+08.00
REMOVE 24" TO
10" REDUCER
JOIN EX. 24" LAT.
10"VCP SEWER
EX. R/W
PROP. R/W
10"VCP SEWER
CALABASH AVE.
10"VCP SEWER
EX. R/W
EX. R/W
PROPOSED SEWER PLAN
11808, 11832 AND 11852 CALABASH AVENUE

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Appendix A

Table 1: Sewer Area Study Calculations

Hydraulic Calculations

utter's Formula

e standard form of Kutter's Formula is known as the Chézy Formula. Kutter's Formula is widely used in itary sewer design and analysis. The roughness component, C, is variable and is a function of R, S, and the annel material. Both x and y are equal to 1/2.

ations for U.S. customary units and the S.I. system are shown below.

$$V = C\sqrt{RS} \tag{5.8}$$

roughness coefficient C is related to Manning's *n* through Kutter's formula.

te: Kutter's roughness coefficients are the same as Manning's roughness coefficients.

[redacted]

FAIR	C		Chézy's roughness coefficient ($^{1/2}$sec., ft**/sec.)
	S	⇒	Friction slope (m/m, ft/ft)
	R		Hyd'raulic'roughness (unitless)
	a		Kutter's roughness (unitless)
	k_g		Constant (23.0 SI, 41.65 U.S. customary)
	k_2		Constant (0.00155 SI, 0.00281 U.S. customary)
	k_3		Constant (1.0 SI, 1.811 U.S. customary)

Jurupa Avenue, City of Fontana
TEI Project #3959
Sewer Area Study Calculations

Location	Pipe		*Capacity (cfs)		Parcel Area (ac)	Flow Factor[1] (GPD/ac)	Average Flow (GPD)	Average Flow (MGD)	Peak Flow[2] (GPD)	Peak Flow (cfs)	Cumulative Peak Flow (cfs)	Velocities (fps)	Depth (ft)	D/d (ft/ft)
	Size (ft.)	Slope (ft/ft)	1/2 Full(<15")	3/4 Full(>15")										
Industrial														
Upstream Project Site														
Reach A1	0.830	0.0210			4.00	3000	12000	0.0120		0.0185	0.0185			
Future proposed sewer line														
Reach A1 and Reach A2	0.830	0.0210	1.570		4.60	3000	13800	0.0138		0.0213	0.0398	**2.0030**	**3.00%**	**0.09**
Reach B1	0.830	0.0080			9.67	3000	29010	0.0290		0.0449	0.0847			
Future proposed sewer line														
Reach B1 and Reach B2	0.830	0.0080	0.970		8.61	3000	25830	0.0258		0.0399	0.1246	**2.0120**	**13.00%**	**0.17**
Reach C1	0.830	0.0050			12.18	3000	36540	0.0365		0.0565	0.1811			
Future proposed sewer line														
Reach C1 and Reach C2	0.830	0.0050	0.770		8.28	3000	24840	0.0248		0.0384	0.2195	**2.0110**	**29.00%**	**0.25**
Reach D2	0.830	0.0040			4.38	3000	13140	0.0131		0.0203	0.2398			
Project Site	0.830	0.0040			2.72	3000	8160	0.0816	9069	0.0140	0.2538			
Reach D1a	0.830	0.0040			0.92	3000	2760	0.0027		0.004	0.2578			
Reach D2 and Reach Project site														
and Reach D1a and Reach D1b	0.830	0.0040	0.6900		0.92	3000	2760	0.0027		0.004	0.2618	**2.0020**	**38.00%**	**0.30**

* n=0.013

1. Per City of Fontana Sewer Master Plan

2. Qpeak = $2.5Q(MGD)^{0.91}$

```
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                          Analysis prepared by:

                        THEINES ENGINEERING INC.



------------------------------------------------------------------------------
  TIME/DATE OF STUDY: 11:41 07/07/2022
==============================================================================
 Problem Descriptions:
  TEI  PROJECT NO. 3959
  CALABASH INDUSTRIAL BUILDING
  REACH   A1 +  REACH  A2       DEPTH
******************************************************************************
>>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<<
------------------------------------------------------------------------------
    PIPE DIAMETER(FEET) =   0.830
    PIPE SLOPE(FEET/FEET) =  0.0210
    PIPEFLOW(CFS) =         0.0398
    MANNINGS FRICTION FACTOR = 0.013000
==============================================================================
    CRITICAL-DEPTH FLOW INFORMATION:
------------------------------------------------------------------------------
    CRITICAL DEPTH(FEET) =      0.08
    CRITICAL FLOW AREA(SQUARE FEET) =     0.029
    CRITICAL FLOW TOP-WIDTH(FEET) =   0.503
    CRITICAL FLOW PRESSURE + MOMENTUM(POUNDS) =            0.17
    CRITICAL FLOW VELOCITY(FEET/SEC.) =     1.366
    CRITICAL FLOW VELOCITY HEAD(FEET) =            0.03
    CRITICAL FLOW HYDRAULIC DEPTH(FEET) =      0.06
    CRITICAL FLOW SPECIFIC ENERGY(FEET) =           0.11
==============================================================================
    NORMAL-DEPTH FLOW INFORMATION:
------------------------------------------------------------------------------
    NORMAL DEPTH(FEET) =      0.07
    FLOW AREA(SQUARE FEET) =      0.02
    FLOW TOP-WIDTH(FEET) =     0.448
    FLOW PRESSURE + MOMENTUM(POUNDS) =            0.19
    FLOW VELOCITY(FEET/SEC.) =           2.003
    FLOW VELOCITY HEAD(FEET) =           0.062
    HYDRAULIC DEPTH(FEET) =      0.04
    FROUDE NUMBER =     1.675
    SPECIFIC ENERGY(FEET) =            0.13
```

```
==============================================================================

 Problem Descriptions:
  TEI  PROJECT NO. 3959
  CALABASH INDUSTRIAL BUILDING
  REACH   A1 +  REACH  A2      CFS
******************************************************************************
>>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<<
------------------------------------------------------------------------------
    PIPE DIAMETER(FEET) =   0.830
    FLOWDEPTH(FEET) =   0.415
    PIPE SLOPE(FEET/FEET) =  0.0210
    MANNINGS FRICTION FACTOR = 0.013000
    >>>>> NORMAL DEPTH FLOW(CFS) =      1.57
==============================================================================
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    NORMAL DEPTH(FEET) =      0.41
    FLOW AREA(SQUARE FEET) =      0.27
    FLOW TOP-WIDTH(FEET) =     0.830
    FLOW PRESSURE + MOMENTUM(POUNDS) =           20.64
    FLOW VELOCITY(FEET/SEC.) =           5.806
    FLOW VELOCITY HEAD(FEET) =           0.523
    HYDRAULIC DEPTH(FEET) =      0.33
    FROUDE NUMBER =     1.792
    SPECIFIC ENERGY(FEET) =           0.94
==============================================================================
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  TIME/DATE OF STUDY: 11:46 07/07/2022
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  TEI  PROJECT NO. 3959
  CALABASH INDUSTRIAL BUILDING
  REACH  B1 + REACH B2       DEPTH
**************************************************************************
>>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<<
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    PIPE DIAMETER(FEET) =   0.830
    PIPE SLOPE(FEET/FEET) =  0.0080
    PIPEFLOW(CFS) =         0.1246
    MANNINGS FRICTION FACTOR = 0.013000
==========================================================================
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    CRITICAL FLOW AREA(SQUARE FEET) =     0.068
    CRITICAL FLOW TOP-WIDTH(FEET) =   0.641
    CRITICAL FLOW PRESSURE + MOMENTUM(POUNDS) =            0.71
    CRITICAL FLOW VELOCITY(FEET/SEC.) =     1.843
    CRITICAL FLOW VELOCITY HEAD(FEET) =            0.05
    CRITICAL FLOW HYDRAULIC DEPTH(FEET) =      0.11
    CRITICAL FLOW SPECIFIC ENERGY(FEET) =            0.20
==========================================================================
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    NORMAL DEPTH(FEET) =      0.14
    FLOW AREA(SQUARE FEET) =      0.06
    FLOW TOP-WIDTH(FEET) =     0.626
    FLOW PRESSURE + MOMENTUM(POUNDS) =           0.72
    FLOW VELOCITY(FEET/SEC.) =           2.012
    FLOW VELOCITY HEAD(FEET) =           0.063
    HYDRAULIC DEPTH(FEET) =      0.10
    FROUDE NUMBER =     1.127
    SPECIFIC ENERGY(FEET) =            0.21
```

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===============================================================================

 Problem Descriptions:
  TEI  PROJECT NO. 3959
  CALABASH INDUSTRIAL BUILDING
  REACH  B1 + REACH B2      CFS
*******************************************************************************
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-------------------------------------------------------------------------------
    PIPE DIAMETER(FEET) =   0.830
    FLOWDEPTH(FEET) =   0.415
    PIPE SLOPE(FEET/FEET) =  0.0080
    MANNINGS FRICTION FACTOR = 0.013000
    >>>>> NORMAL DEPTH FLOW(CFS) =      0.97
===============================================================================
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    FLOW TOP-WIDTH(FEET) =     0.830
    FLOW PRESSURE + MOMENTUM(POUNDS) =            9.70
    FLOW VELOCITY(FEET/SEC.) =           3.583
    FLOW VELOCITY HEAD(FEET) =           0.199
    HYDRAULIC DEPTH(FEET) =      0.33
    FROUDE NUMBER =     1.106
    SPECIFIC ENERGY(FEET) =           0.61
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  TIME/DATE OF STUDY: 11:51 07/07/2022
==============================================================================
 Problem Descriptions:
  TEI PROJECT N0. 3959
  CALABASH INDUSTRIAL BUILDING
  REACH  C1 + REACH  C2          DEPTH
******************************************************************************
>>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<<
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    PIPE DIAMETER(FEET) =   0.830
    PIPE SLOPE(FEET/FEET) =  0.0050
    PIPEFLOW(CFS) =         0.2195
    MANNINGS FRICTION FACTOR = 0.013000
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    CRITICAL FLOW AREA(SQUARE FEET) =     0.102
    CRITICAL FLOW TOP-WIDTH(FEET) =   0.713
    CRITICAL FLOW PRESSURE + MOMENTUM(POUNDS) =            1.45
    CRITICAL FLOW VELOCITY(FEET/SEC.) =     2.148
    CRITICAL FLOW VELOCITY HEAD(FEET) =            0.07
    CRITICAL FLOW HYDRAULIC DEPTH(FEET) =      0.14
    CRITICAL FLOW SPECIFIC ENERGY(FEET) =           0.27
==============================================================================
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    FLOW AREA(SQUARE FEET) =      0.11
    FLOW TOP-WIDTH(FEET) =     0.724
    FLOW PRESSURE + MOMENTUM(POUNDS) =           1.46
    FLOW VELOCITY(FEET/SEC.) =          2.011
    FLOW VELOCITY HEAD(FEET) =          0.063
    HYDRAULIC DEPTH(FEET) =      0.15
    FROUDE NUMBER =     0.913
    SPECIFIC ENERGY(FEET) =           0.27
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```
==============================================================================

 Problem Descriptions:
  TEI PROJECT N0. 3959
  CALABASH INDUSTRIAL BUILDING
  REACH  C1 + REACH  C2          CFS
******************************************************************************
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    FLOWDEPTH(FEET) =   0.415
    PIPE SLOPE(FEET/FEET) =  0.0050
    MANNINGS FRICTION FACTOR = 0.013000
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    FLOW TOP-WIDTH(FEET) =     0.830
    FLOW PRESSURE + MOMENTUM(POUNDS) =            7.18
    FLOW VELOCITY(FEET/SEC.) =           2.833
    FLOW VELOCITY HEAD(FEET) =           0.125
    HYDRAULIC DEPTH(FEET) =      0.33
    FROUDE NUMBER =     0.874
    SPECIFIC ENERGY(FEET) =           0.54
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  TIME/DATE OF STUDY: 12:03 07/07/2022
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 Problem Descriptions:
  TEI  PROJECT NO. 3959
  CALABASH INDUSTRIAL BUILDING
  REACH PROJECT SITE + REACHES D1a + D1b+ D2     DEPTH
*****************************************************************************
>>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<<
---------------------------------------------------------------------------
    PIPE DIAMETER(FEET) =   0.830
    PIPE SLOPE(FEET/FEET) =  0.0040
    PIPEFLOW(CFS) =         0.2618
    MANNINGS FRICTION FACTOR = 0.013000
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    CRITICAL FLOW AREA(SQUARE FEET) =     0.116
    CRITICAL FLOW TOP-WIDTH(FEET) =   0.734
    CRITICAL FLOW PRESSURE + MOMENTUM(POUNDS) =            1.81
    CRITICAL FLOW VELOCITY(FEET/SEC.) =     2.256
    CRITICAL FLOW VELOCITY HEAD(FEET) =            0.08
    CRITICAL FLOW HYDRAULIC DEPTH(FEET) =      0.16
    CRITICAL FLOW SPECIFIC ENERGY(FEET) =            0.30
===========================================================================
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    NORMAL DEPTH(FEET) =      0.25
    FLOW AREA(SQUARE FEET) =      0.13
    FLOW TOP-WIDTH(FEET) =     0.758
    FLOW PRESSURE + MOMENTUM(POUNDS) =           1.85
    FLOW VELOCITY(FEET/SEC.) =           2.002
    FLOW VELOCITY HEAD(FEET) =           0.059
    HYDRAULIC DEPTH(FEET) =      0.18
    FROUDE NUMBER =     0.818
    SPECIFIC ENERGY(FEET) =            0.30
```

```
===============================================================================

 Problem Descriptions:
  TEI  PROJECT NO. 3959
  CALABASH INDUSTRIAL BUILDING
  REACH PROJECT SITE + REACHES D1a + D1b+ D2     CFS
*******************************************************************************
>>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<<
-------------------------------------------------------------------------------
    PIPE DIAMETER(FEET) =   0.830
    FLOWDEPTH(FEET) =   0.415
    PIPE SLOPE(FEET/FEET) =  0.0040
    MANNINGS FRICTION FACTOR = 0.013000
    >>>>> NORMAL DEPTH FLOW(CFS) =      0.69
===============================================================================
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    FLOW TOP-WIDTH(FEET) =     0.830
    FLOW PRESSURE + MOMENTUM(POUNDS) =            6.34
    FLOW VELOCITY(FEET/SEC.) =           2.534
    FLOW VELOCITY HEAD(FEET) =           0.100
    HYDRAULIC DEPTH(FEET) =      0.33
    FROUDE NUMBER =     0.782
    SPECIFIC ENERGY(FEET) =           0.51
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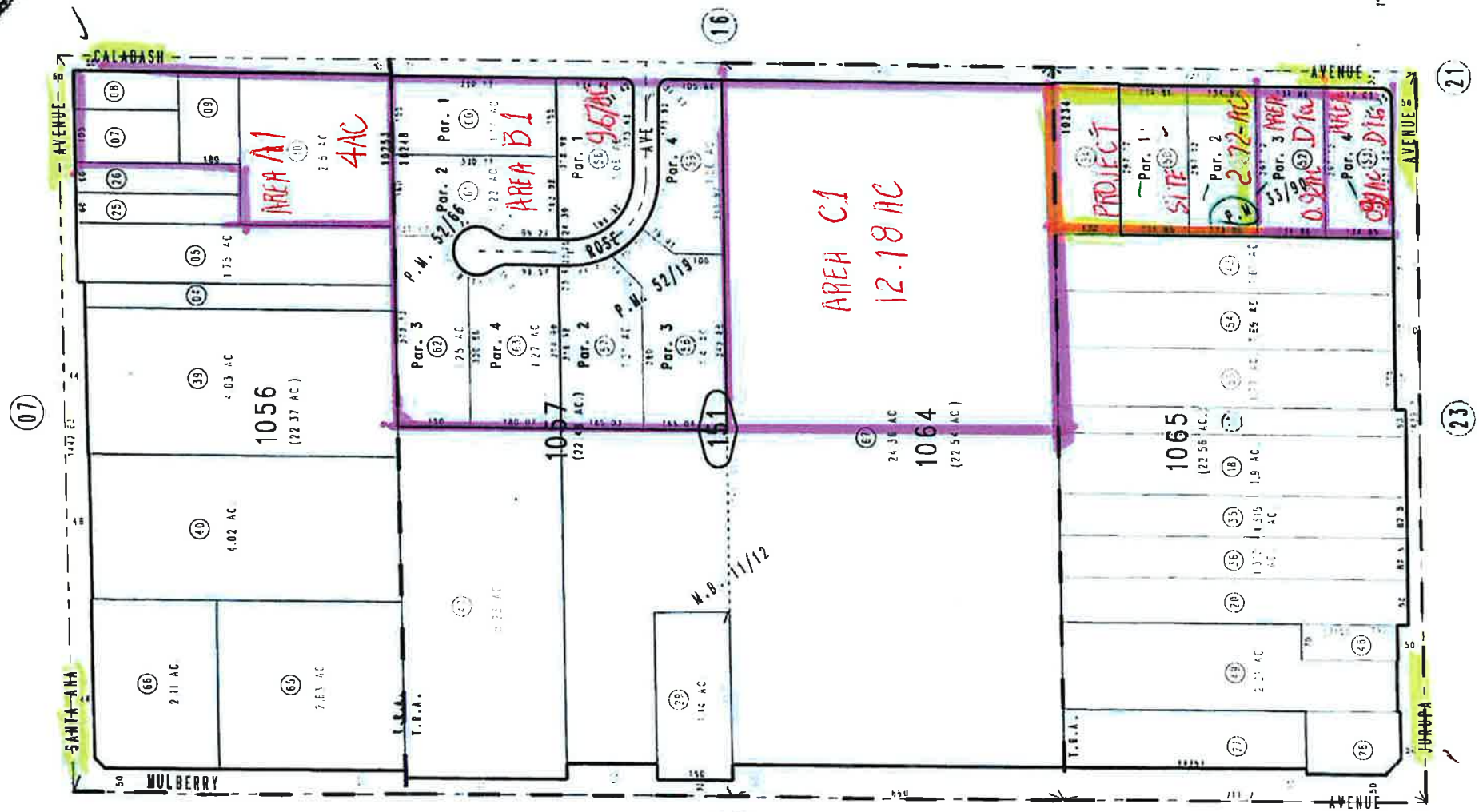
Semi-Tropic Land & Water Co.
M.B. 11/12

City of Fontana
Tax Rate Area
10234 10248 10253

BOOK 0236 - 15 PAGE



0238 / 11

Parcel Map No. 4459, P.M. 52/66
Parcel Map No. 5313, P.M. 52/19
Parcel Map No. 3468, P.M. 33/90

Ptn. S.W.1/4, Sec. 27
T.1S., R.6W.

Assessor's Map
Book 0236 Page 15
San Bernardino County

REVISED
01/05/16 RM-I
10/26/20 RU

February 2004

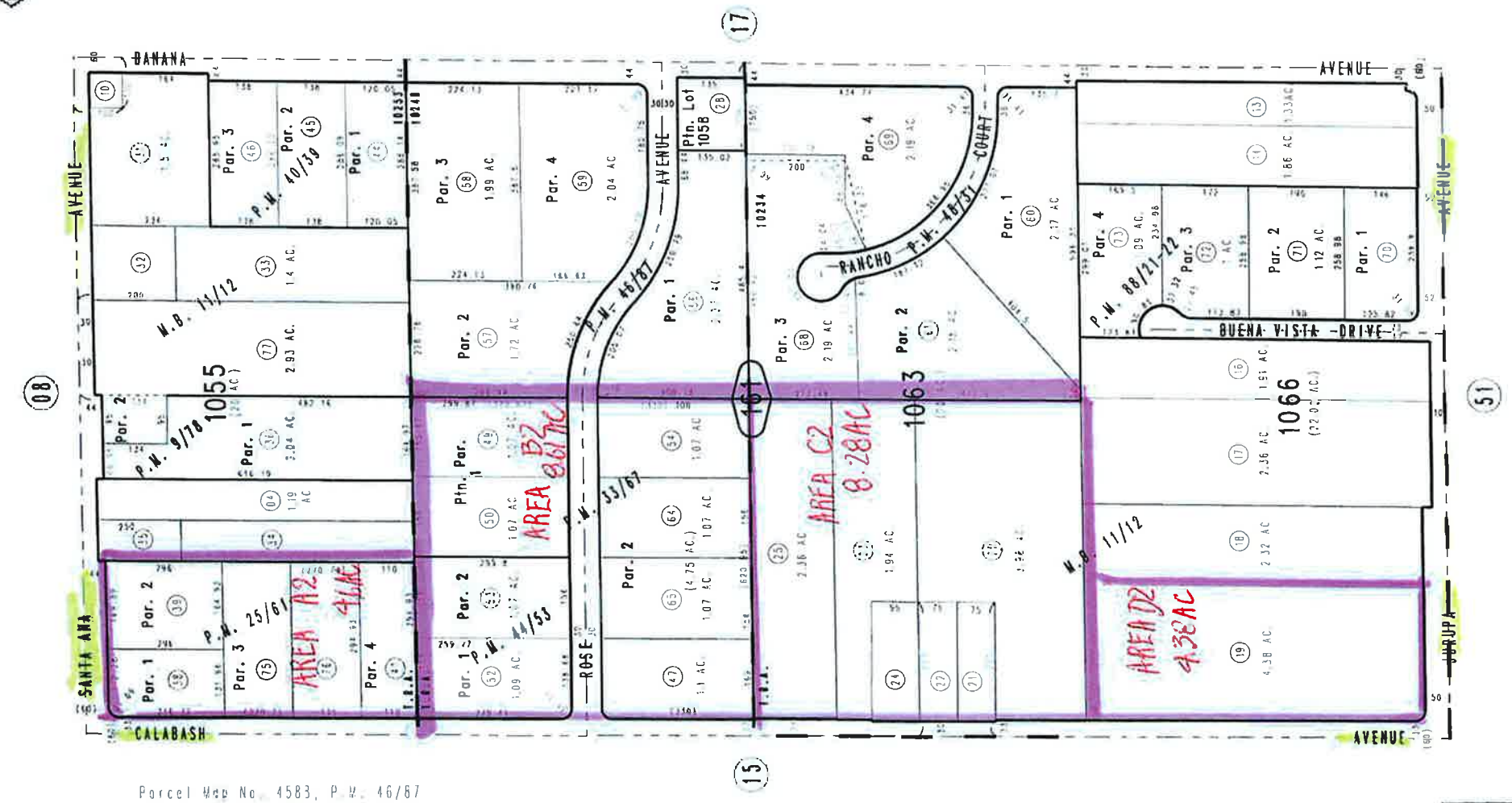
THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY

Semi-Tropic Land & Water Co.
M.B. 11/12

City of Fontana
Tax Rate Area
10234 10248 10253

0236 - 16

1" = 200'



Parcel Map No. 4583, P.M. 46/87
Parcel Map No. 4963, P.M. 44/53
Parcel Map No. 4451, P.M. 40/39
Ptn. Parcel Map No. 3625, P.M. 33/67
Parcel Map No. 2835, P.M. 25/61
Parcel Map No. 1113, P.M. 9/78
Parcel Map No. 6572, P.M. 88/21-22
Parcel Map No. 5083, P.M. 46/31

Ptn. S.W.1/4, Sec. 27
T.1S., R.6W.

Assessor's Map
Book 0236 Page 16
San Bernardino County

REVISED
11/12/20 KA

February 2004

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

Appendix B

1. Assessor' s Map
2. Vicinity Map
3. City of Fontana, State of California-Zoning Map
4. City of Fontana, State of California-General Land Use Map
5. Conceptual Sewer Plan
6. Zoning Confirmation
7. Fontana Interceptor Relief Sewer – phase II – 1881-D-4573-1 (drawing no. G-1, dwg no. C-6 and C-7
8. City of Fontana Index Map

BOOK 1

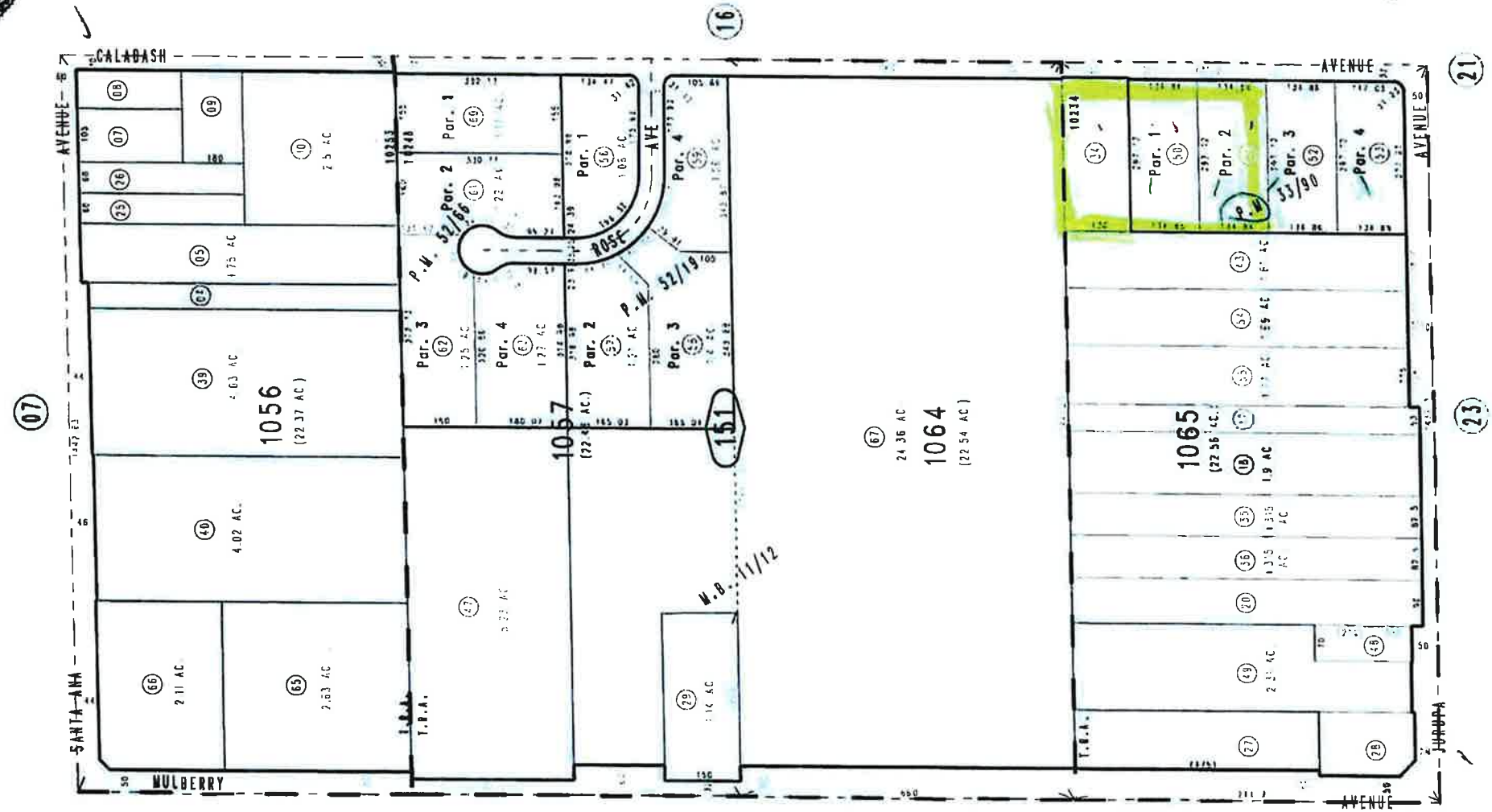
THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Semi-Tropic Land & Water Co.
M.B. 11/12

City of Fontana
Tax Rate Area
10234 10248 10253

0236 - 15
PAGE

1" = 200'



0238 / 11

Parcel Map No. 4459, P.M. 52/66
Parcel Map No. 5313, P.M. 52/19
Parcel Map No. 3468, P.M. 33/90

Ptn. S.W.1/4, Sec. 27
T.1S., R.6W.

Assessor's Map
Book 0236 Page 15
San Bernardino County

REVISED
01/05/16 RM-MC
10/26/20 RU

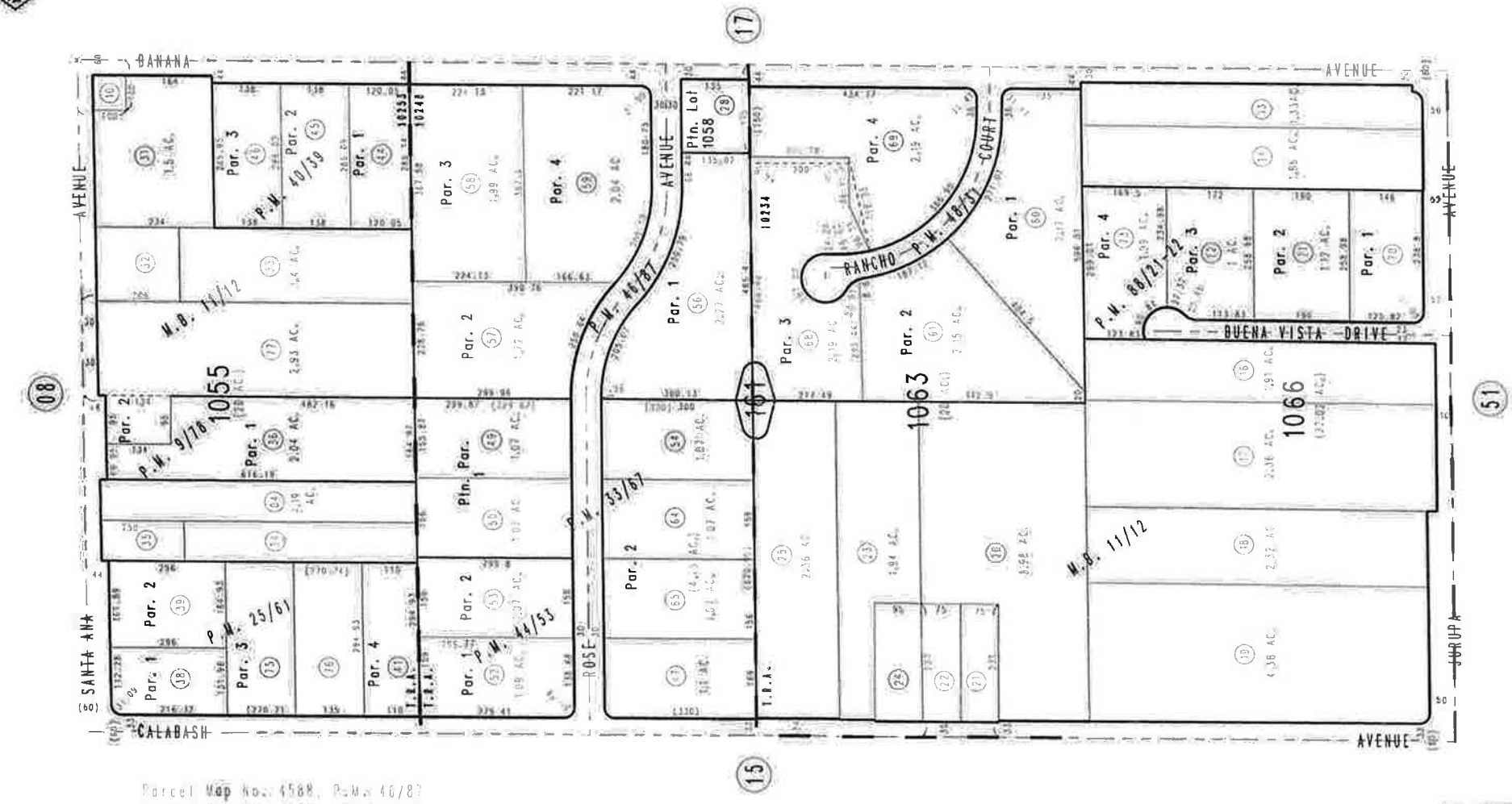
February 2004

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Semi-Tropic Land & Water Co.
M.B. 11/12

City of Fontana
Tax Rate Area
10234 10248 10253

0236 - 16



Parcel Map No. 4588, P.M. 46/87
Parcel Map No. 4900, P.M. 44/53
Parcel Map No. 4451, P.M. 40/39
Ptn. Parcel Map No. 3625, P.M. 33/67
Parcel Map No. 2835, P.M. 25/61
Parcel Map No. 1713, P.M. 9/78
Parcel Map No. 6572, P.M. 88/21-22
Parcel Map No. 5083, P.M. 48/31

Ptn. S.W.1/4, Sec. 27
T.1S., R.6W.

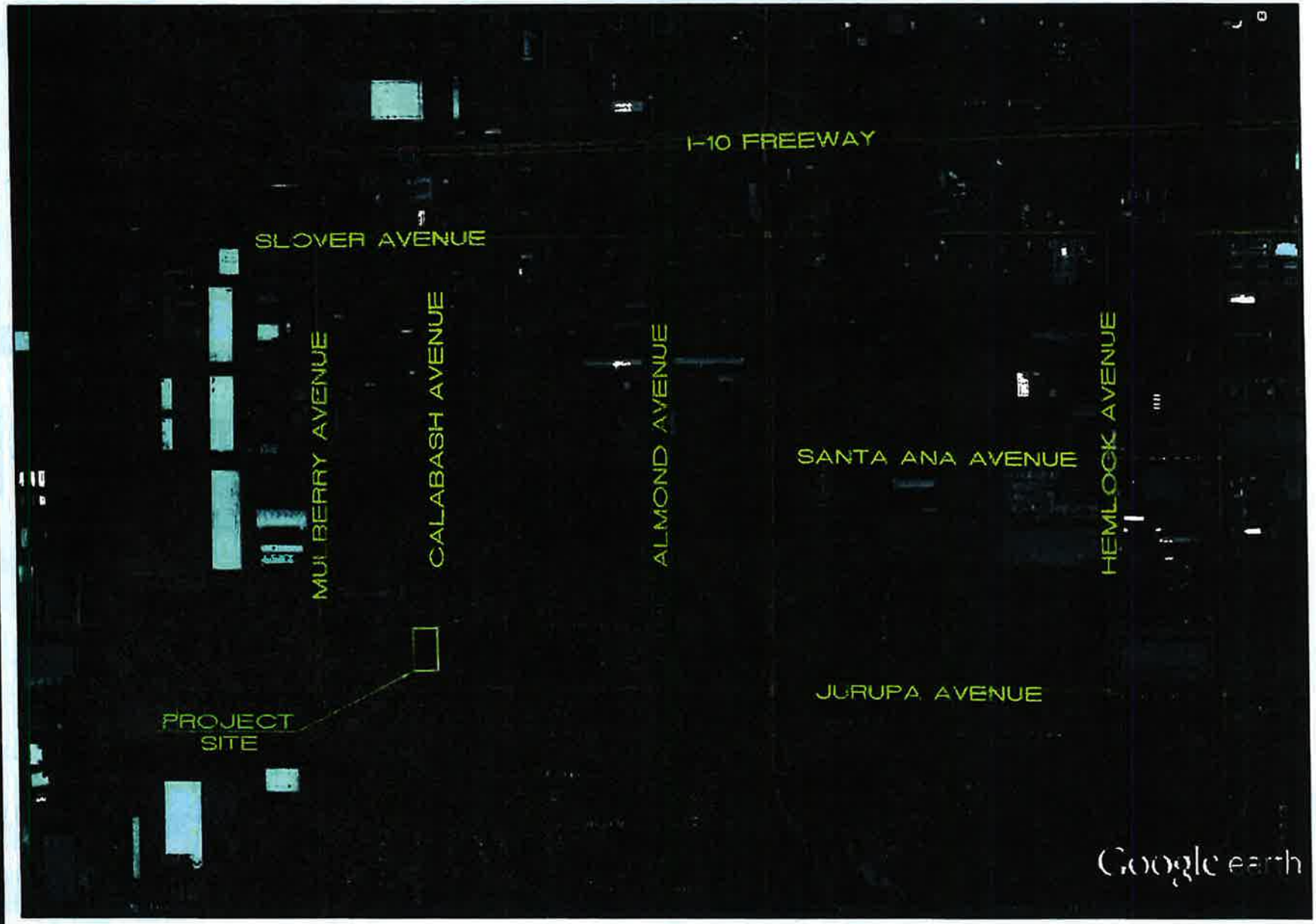
Assessor's Map
Book 0236 Page 16
San Bernardino County

REVISED
11/12/20 KA

February 2004

VICINITY MAP

N.T.S.



"VICINITY MAP"

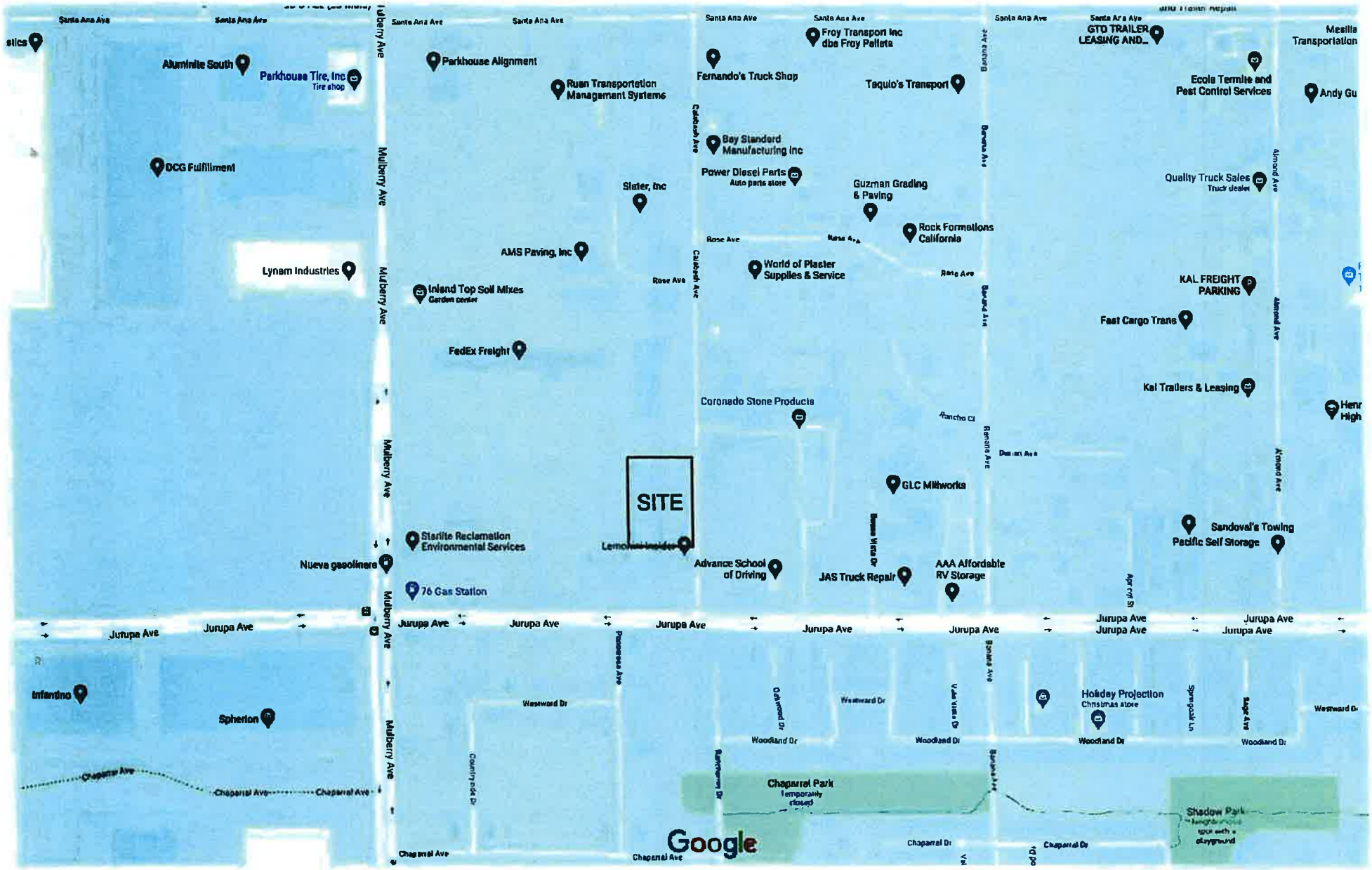
FOR

CALABASH INDUSTRIAL BUILDING
FONTANA, CA

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

Last Update: 4/19/21
O:\3900-3999\3959\3959VicMap.dwg

Google Maps

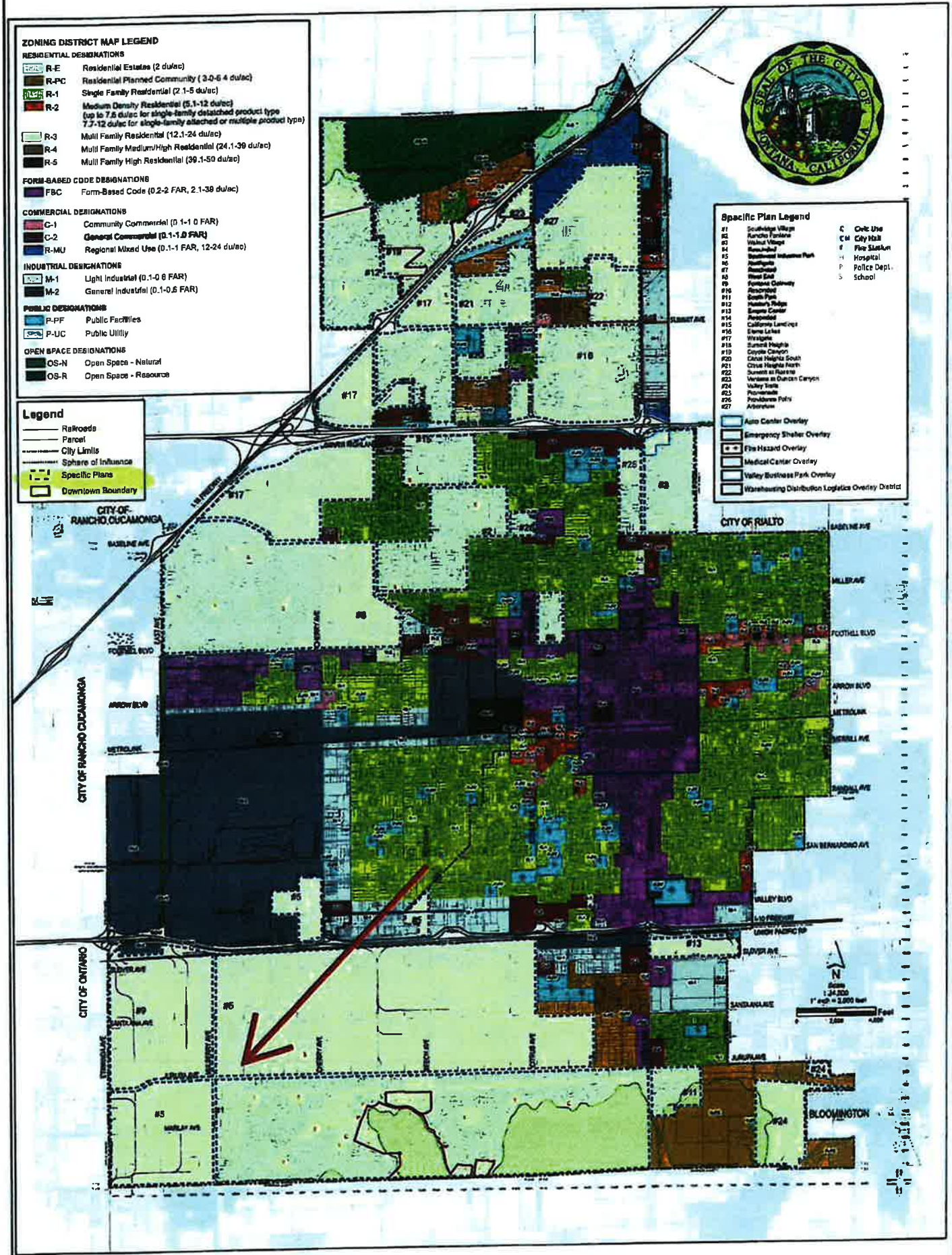


Map data ©2021 Google 200 ft

City of Fontana, State of California

ZONING DISTRICT MAP

ADOPTED: SEPTEMBER 10, 2019



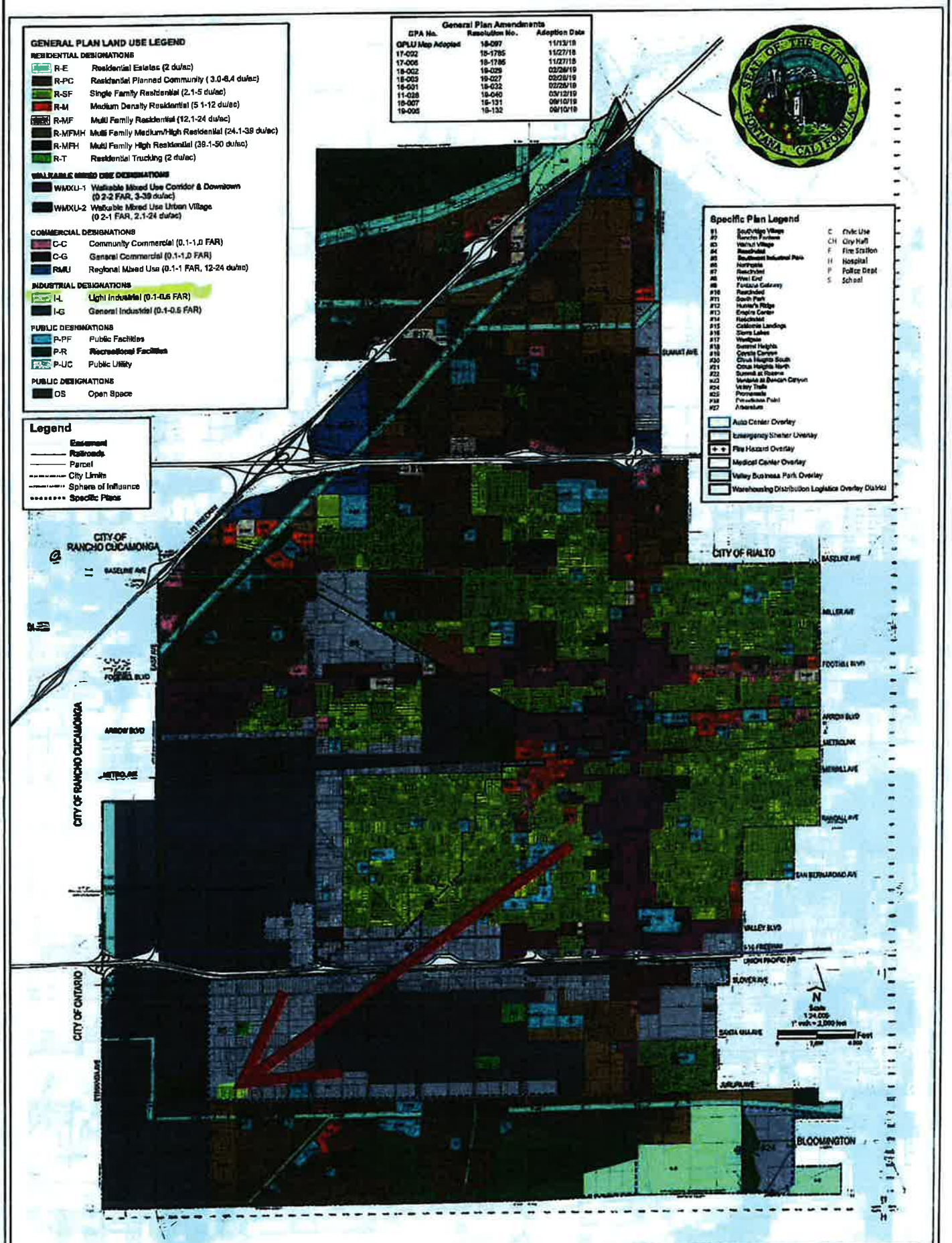
Map Disclaimer

The data provided hereon may be inaccurate or out of date and any person or entity who relies on said information for any purpose whatsoever does so solely at his or her own risk. Neither the City of Fontana nor any agency, officer, or employee of either nor of any information provider warrants the accuracy, reliability of timeliness of any of the data provided hereon. [illegible] AND NOT OF LIMITATION THE IMPLIED WARRANTIES

City of Fontana, State of California

GENERAL PLAN LAND USE MAP

Adopted: September 10, 2019



Map Disclaimer

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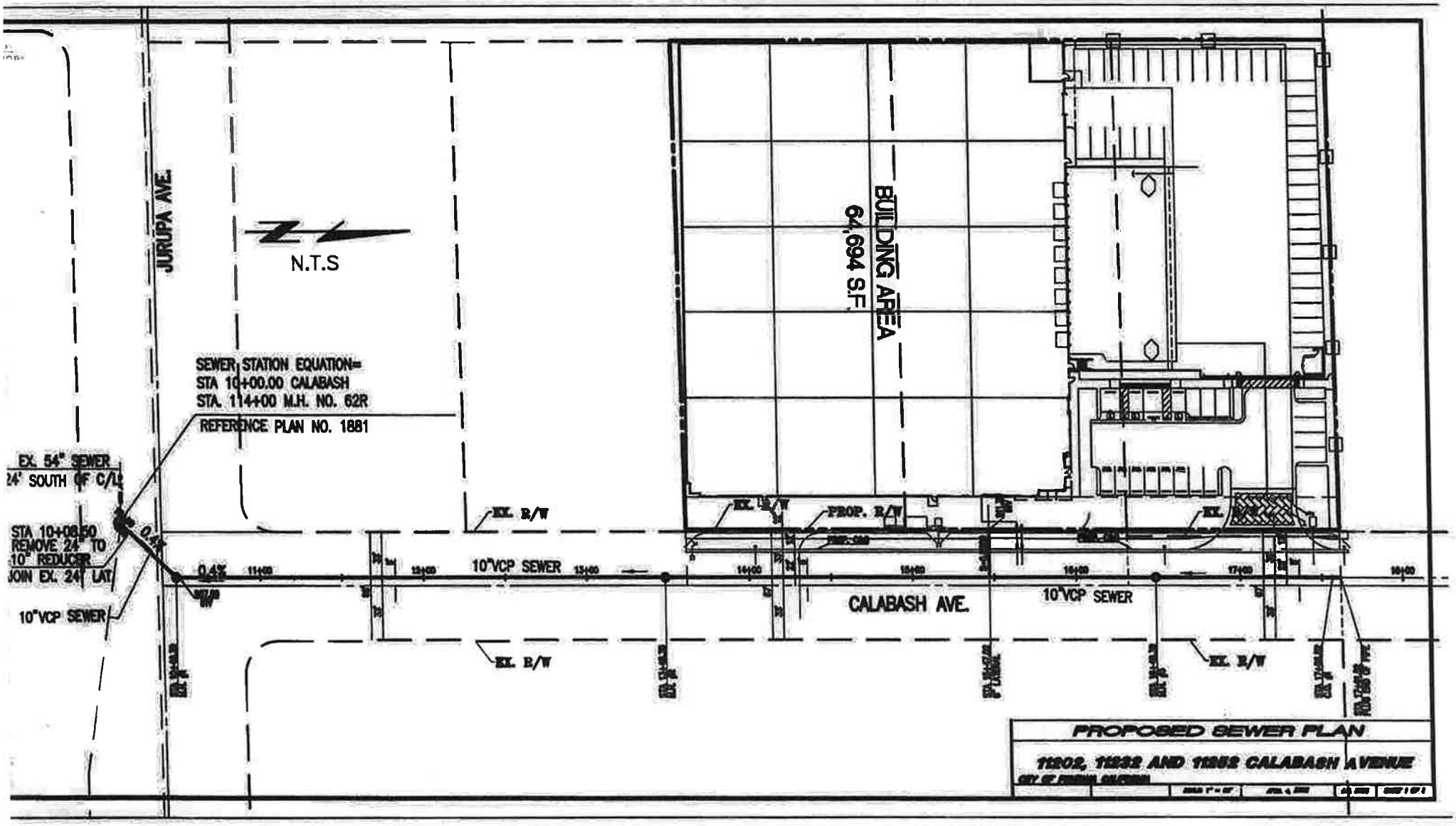

JURUPA AVE.
N.T.S
BUILDING AREA
64,694 S.F.
SEWER STATION EQUATION=
STA 10+00.00 CALABASH
STA. 114+00 M.H. NO. 62R
REFERENCE PLAN NO. 1881
EX. 54" SEWER
24' SOUTH OF C/L
STA 10+08.50
REMOVE 24" TO
10" REDUCER
JOIN EX. 24" LAT.
10"VCP SEWER
0.4%
EX. R/W
PROP. R/W
10"VCP SEWER
CALABASH AVE.
10"VCP SEWER
EX. R/W
EX. R/W
PROPOSED SEWER PLAN
11202, 11232 AND 11262 CALABASH AVENUE

DUE DILIGENCE JOB WORKSHEET		PROP #	JOB NO. 3959
THIENES ENGINEERING Ph 714.521.4811 Fax 714.521.4173		COUNTY:	San Bernardino
14349 Firestone Blvd. La Mirada, CA 90638		CITY:	Fontana
CLIENT Panattoni Development Company, Inc.		THOMAS BROS.	PAGE 644 GRID B2
ADDRESS:		**JOB DESCRIPTION**	
		PROJECT NAME:	Calabash Avenue Industrial Development
PHONE:		SITE LOCATION:	W/S Calabash Ave, between Jurupa Ave & Santa Ana Ave
FAX:		SITE ADDRESS:	11202, 11232 and 11252 Calabash Avenue
E-MAIL:		A.P.N.:	0236-151-34, 50 and 51
CONTACT:		SITE ACREAGE:	2.72
CITY HALL		PROPOSED BLDG. SF	64,900
ADDRESS:		LEGAL OWNER:	
		REFERENCE JOB NO.:	2431, 3453, 3543, 3899, 3941, 3942
PHONE:		**ZONING INFORMATION**	
FLOOD INFORMATION		GENERAL PLAN LU:	Southwest Industrial Park, I-L Light Industrial
ZONE DESIGNATION:	D & X Unshaded	ZONE DESIGNATION:	Southwest Industrial Park
COMMUNITY/PANEL NO.	06074/8642J	SWIP ZONING:	Jurupa North Research and Development District (JND)
MAP NO.	06071C8642J		Confirmed 3/4/2021
DATE:	9/26/2014		
BASE FLOOD ELEVATION:			

BOUNDARY TOPO A.L.T.A. CIVIL DUE DIL. TR./P.M. OTHER

	COUNTY RESEARCH		***CITY RESEARCH***		***MISCELLANEOUS***
	County Wall Map	■	Benchmarks (Datum)	■ General Plan Map / Designation	R/R R/W
■	Benchmarks (Datum)	■	Benchmark Atlas	■ Zoning Map / Designation	■ Flood Zone Information
■	Centerline Ties (CL, CR, GPS)	■	Centerline Tie Atlas	■ Development Standards	Airport Layout Plan
■	Record Maps	■	Centerline Ties (CL, CR, GPS)	■ Parking/Loading Standards	Site Photos
	Substructure Map	■	Street Improvement Atlas	■ Landscape Standards	Site Photo Index
	Street Improvement Plans	■	Street Improvement Plans	Fee Schedules (Plan/Bldg/Engin)	■ Aerial
	Sewer Atlas		Streetlight Plans	Business Cards (Plan/Bldg/Engin/Fire)	■ FF (Tank or Pump) Req GPM?
	Sewer As-Builts		Traffic Signal Plans		Title Report
	Storm Drain Atlas	■	Circulation+Truck Rte Map	■ USA Dig Alert Util/Serv Requests	Site Plan
	Storm Drain As-Builts	■	Sewer Atlas	■ Dig Alert List from SpinnSoft	NA Earthquake - Alquist Pri
	Hydrology (Map & Q)	■	Sewer As-Builts	■ U.S.G.S. -TOPO Map	NA Liquefaction Guasti
	SD Master Plan	■	Domestic Water Atlas	■ D.O.G. Research	■ Metroscan/APN (Log time)
	Flood Control Channel R/W	■	Domestic Water As-Builts	■ Vicinity Map	On-Site Records from Owner
	Flood Control Channel As-Builts	■	Reclaimed Water Atlas	■ Farmland & Wetlands Maps	Client Questions
	Flood Control Channel Hydrology		Reclaimed Water As-Builts	■ GeoTracker	School District ¢/sq ft
	Flood Control TOPO Maps	■	Storm Drain Atlas		
	Caltrans R/W	■	Storm Drain As-Builts		
	Caltrans As-Builts	■	Hydrology - Map & Q		
	Caltrans Hydrology	■	Master Drainage Map/Plan		
	Caltrans Survey Info	NA	Grading Plan-FEDEX north		

Street Name	Designation	Std. Dwg	Ult Width
Calabash Ave	Collector	■	34' half

COR. CUTOFF or RADIUS

Plan Check Times:	Expediting?	City Standards-	Energy
Planning		Building	H.C. Access
Building		Plumbing	Public Works
Engineering		Electrical	
City Council Meets-		Mechanical	
Planning Commision Meets-		Fire Code	

NOTES:

■ Date Item was requested (In Process) ■ Completed

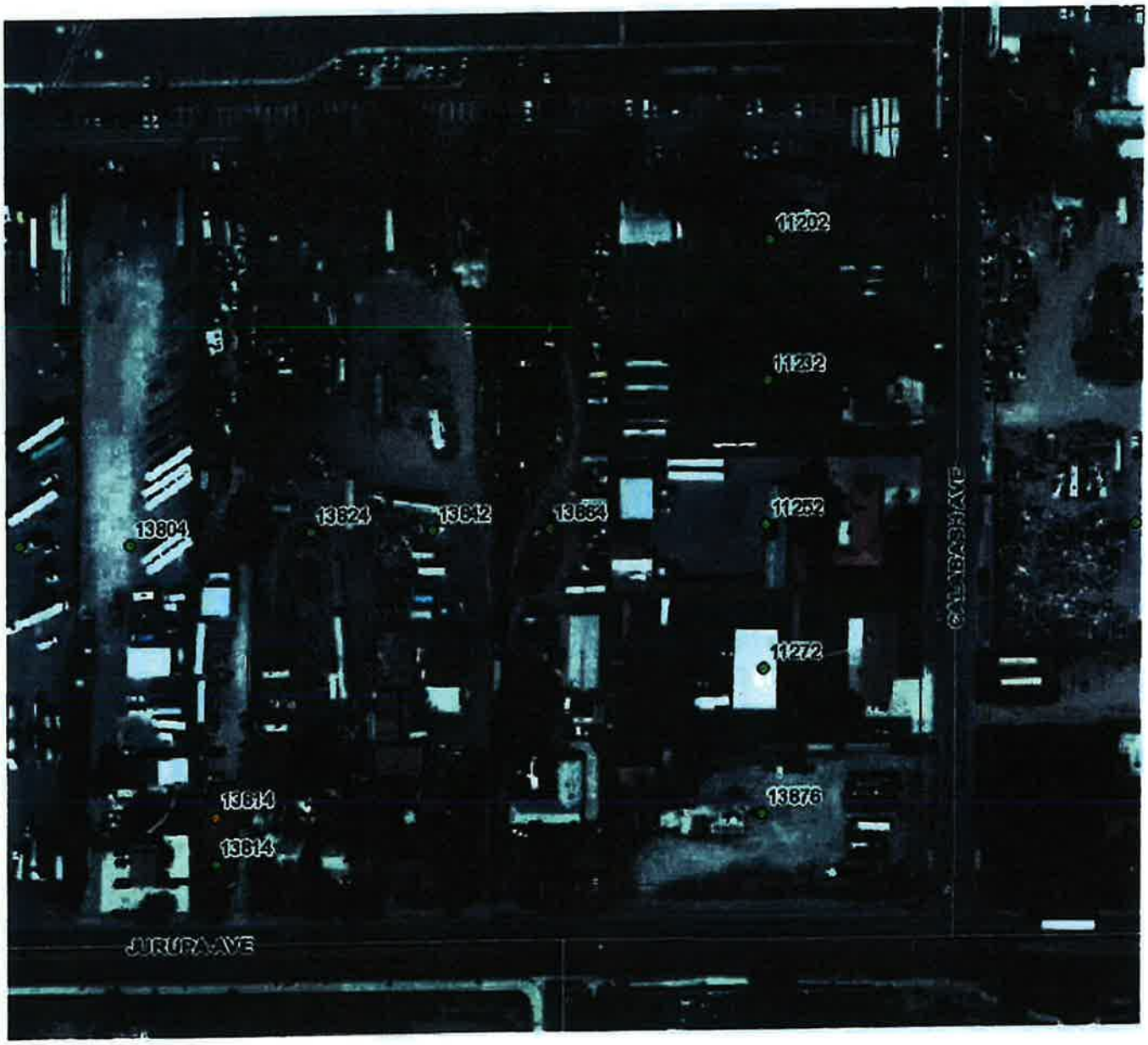
■ To be obtained if available NA Not Available

Angie Maldonado

From: George Velarde <gvelarde@fontana.org>
Sent: Thursday, March 4, 2021 4:38 PM
To: Angie Maldonado
Subject: Zoning - TEI 3959

Hi Angie and good afternoon,

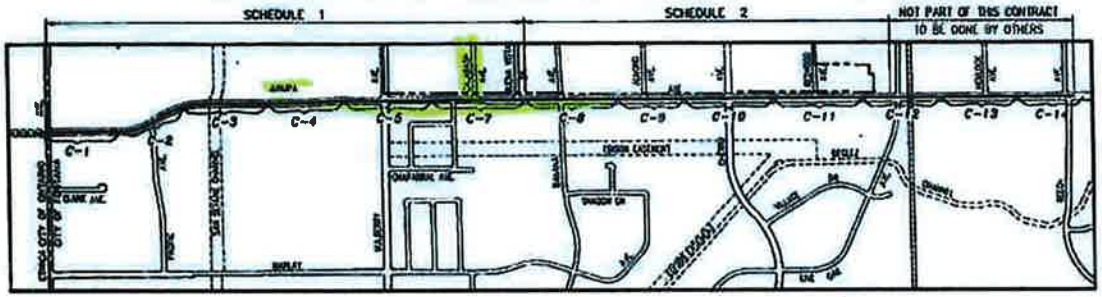
The properties in question do have a General Plan designation of Light Industrial (I-L). The zoning does fall within the Southwest Industrial Park Specific Plan, more specifically the Jurupa North Research District (JND). Also there are no additional special zones or overlays. Thank you.



George Velarde
Assistant Planner • Community Development
City of Fontana • 8353 Sierra Ave • Fontana, CA 92335
gvelarde@fontana.org • Office: (909) 350-6569

FONTANA INTERCEPTOR RELIEF SEWER – PHASE II

(FROM ETIWANDA AVE. TO LIVE OAK AVE.) ⚠



INDEX MAP
SCALE 1"=1000'

GENERAL NOTES :

1. THE ENGINEER HAS ATTEMPTED TO CONTACT VARIOUS UTILITY COMPANIES AND TO SHOW THE UNDERGROUND FACILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE JOB SITE AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL AT HIS OWN EXPENSE OR COST CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS WILL PROTECT ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (U.S.A.), PHONE NUMBER 1-800-422-4133, TWO WORKING DAYS PRIOR TO DIGGING.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS, UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS SPECIAL CONDITIONS, INCLUDING A CITY OF FONTANA, CITY OF ONTARIO, AND COUNTY OF SAN BERNARDINO ROAD DEPARTMENT PERMIT, PRIOR TO COMMENCMENT OF WORK. THE CONTRACTOR SHALL REFER TO DIVISION 100 OF THE SPECIFICATIONS FOR SPECIAL CONSTRUCTION REQUIREMENTS OF WORK WITHIN THE CITY OF FONTANA, C.B.M.W.D., UNION PACIFIC RAILROAD, AND SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT, RIGHT-OF-WAY.
3. ALL SEWER PIPE ELEVATIONS GIVEN REFER TO THE FLOWLINE INVERT ELEVATIONS.
4. THE EXISTING (OR PROPOSED) CENTERLINE OF JURUPA AVENUE IS THE SURVEY CONTROL LINE, AND ALL STATIONING REFERS TO THE CENTERLINE OF JURUPA AVENUE.
5. ALL LENGTHS OF SHOWN IN PROFILE ARE HORIZONTAL LENGTHS BETWEEN MANHOLES MEASURED ALONG THE PIPELINE.
6. ALL NEW SEWER PIPE SHALL BE P.V.C. LINED REINFORCED CONCRETE PIPE, EXTRA STRENGTH V.C.P., OR SPIROLITE RSC 160 PIPE AS NOTED ON DRAWING C-1 THRU C-14
7. THE CONTRACTOR SHALL PRESERVE ALL BENCHMARKS, STAKES, AND OTHER SURVEY MARKS, WHETHER OR NOT THEY ARE SHOWN ON THESE DRAWINGS, AND IN CASE OF THEIR REMOVAL OR DESTRUCTION BY HIS OWN EMPLOYEES OR BY HIS SUBCONTRACTOR'S EMPLOYEES, HE SHALL BE LIABLE FOR THE COST OF THEIR REPLACEMENT.

ABBREVIATIONS / LEGEND

R.C.P.	REINFORCED CONCRETE PIPE	EQ.	EQUATION
V.C.P.	VITRIFIED CLAY PIPE	DWG.	DRAWING
M.H.	MANHOLE	STA.	STATION
I.D.	INSIDE DIAMETER	EL.	ELEVATION
HORIZ.	HORIZONTAL	L.F.	LINEAL FEET
VERT.	VERTICAL	ø	DIAMETER
INV.	INVERT		

—R/W—	RIGHT OF WAY	--W--	EXISTING WATER LINE
—℄—	CENTER LINE	--G--	EXISTING GAS LINE
—℘—	PROPERTY LINE	--T--	EXISTING TELEPHONE LINE
	EXISTING PAVEMENT	--E--	EXISTING ELECTRICAL LINE
•	POWER POLE	R.C.P.	EXISTING REINFORCED CONCRETE PIPE STORM DRAIN
○	MANHOLE		EXISTING FIRE HYDRANT
--S--	EXISTING SEWER LINE	⊙	AERIAL CONTROL POINT
—S—	NEW SEWER LINE TO BE CONSTRUCTED		EXISTING SHUT-OFF VALVE
	STREET LIGHT	◘	EXISTING EDISON VAULT
	BENCHMARK	▣	EXISTING TELEPHONE BOX
	SOIL BORING		EXISTING FENCE
--SL--	EXISTING SEWER LATERAL	—NRW—	EXISTING NON-RECLAIMABLE WASTE LINE
	PROPOSED PAVEMENT		
	EXISTING CURB AND GUTTER		
	PROPOSED CURB AND GUTTER		

LIST OF DRAWINGS

		CBMWD DRAWING NUMBER	SCHEDULE
TITLE SHEET, INDEX MAP AND GENERAL NOTES	C-1	D-4573-1	1 & 2
JURUPA AVENUE – STA 46+87.13 TO STA. 57+69.96	C-1	D-4573-2	1
JURUPA AVENUE – STA 57+69.96 TO STA. 89+00	C-2	D-4573-3	1
JURUPA AVENUE – STA 69+00 TO STA. 79+50	C-3	D-4573-4	1
JURUPA AVENUE – STA. 79+50 TO STA 90+50	C-4	D-4573-5	1
JURUPA AVENUE – STA 90+50 TO STA 102+00	C-5	D-4573-6	1
JURUPA AVENUE – STA. 102+00 TO STA. 113+50	C-6	D-4573-7	1
JURUPA AVENUE – STA. 113+50 TO STA. 125+50	C-7	D-4573-8	1 & 2
JURUPA AVENUE – STA. 125+50 TO STA 137+00	C-8	D-4573-9	2
JURUPA AVENUE – STA. 137+00 TO STA 149+00	C-9	D-4573-10	2
JURUPA AVENUE – STA 149+00 TO STA. 161+00	C-10	D-4573-11	2
JURUPA AVENUE – STA 161+00 TO STA. 173+00	C-11	D-4573-12	2
JURUPA AVENUE – STA 173+00 TO STA. 185+00	C-12	D-4573-13	2 (STA. 173+00 TO STA. 179+50)
~~JURUPA AVENUE – STA. 185+00 TO STA. 197+50~~ ⚠	~~C-13~~	~~D-4573-14~~	NOT IN CONTRACT
~~JURUPA AVENUE – STA. 197+50 TO STA. 209+00~~ ⚠	~~C-14~~	~~D-4573-15~~	NOT IN CONTRACT
METERING STRUCTURE	C-15	D-4573-16	1
SIPHON AND MISCELLANEOUS DETAILS	C-16	D-4573-17	1 & 2
MISCELLANEOUS DETAILS	C-17	D-4573-18	1 & 2

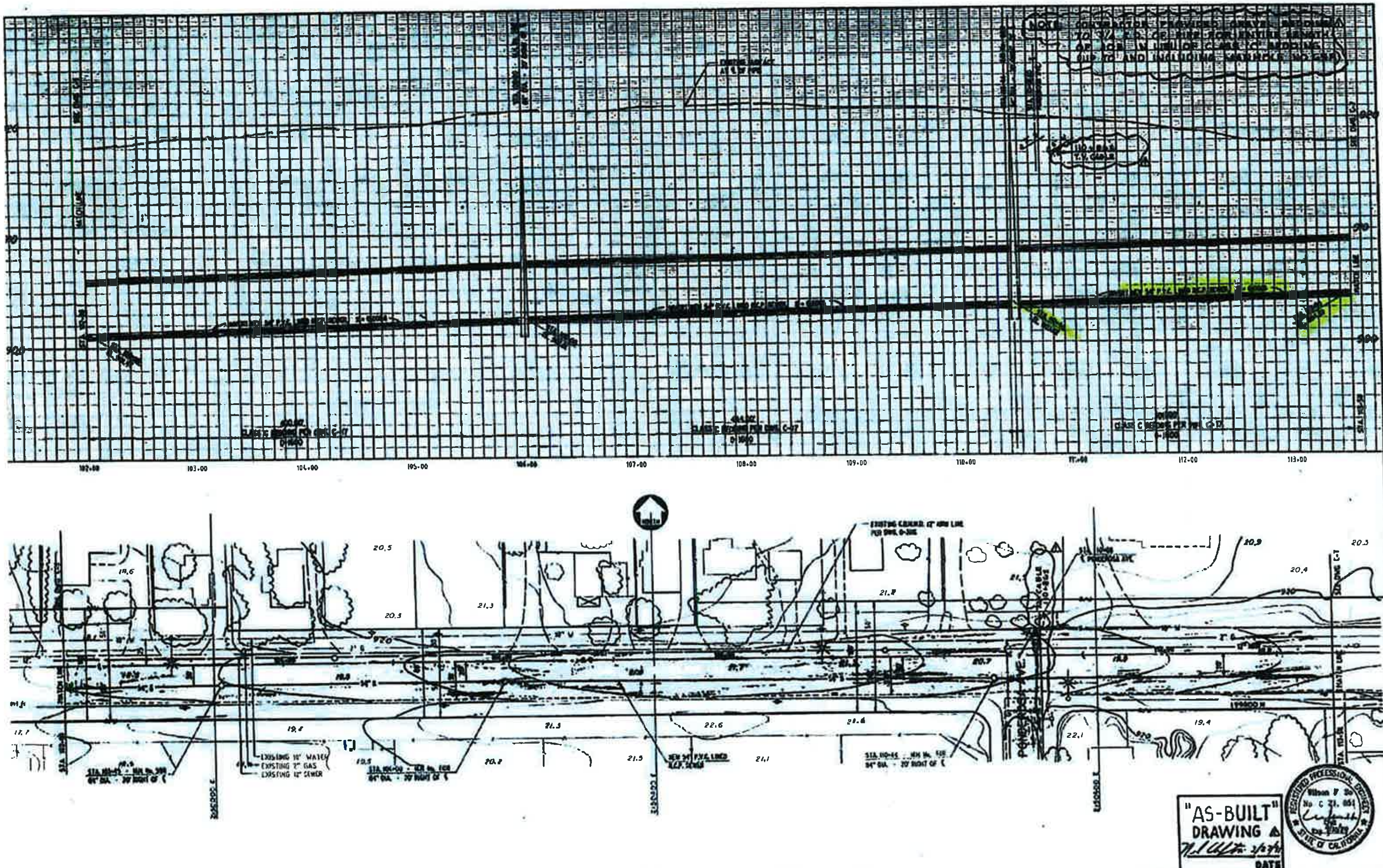
"AS-BUILT" DRAWING ⚠
DATE

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

"AS-BUILT" DRAWING	T.W.	1/14/91	DESIGNED BY: M.P.P	PROJECT ENGINEER	PREPARED BY: WILSON F. SO & ASSOCIATES, INC.	APPROVED BY: CBMWD – GENERAL MANAGER 4/16/91	SCALE: AS SHOWN	CHINO BASIN MUNICIPAL WATER DISTRICT	SHEET 1 OF 18
	T.W.	1/14/91	DRAWN BY: J.B.C.			CBMWD – PROJECT MANAGER 4/16/91	WORK ORDER NO 1510-570RR	FONTANA INTERCEPTOR RELIEF SEWER – PHASE II TITLE SHEET, INDEX MAP AND GENERAL NOTES	DRAWING NO G-1
REVISION DESCRIPTION	BY	DATE	CHECKED BY: W.F. SO	SUBMITTED BY					D-4573-1

1881

D-4573-1



"AS-BUILT" DRAWING	T.W.	1/14/91	DESIGNED BY: M.P.P.	
	T.W.	1/14/91	DRAWN BY: M.P.B.	
REVISION DESCRIPTION	BY	DATE	CHECKED BY: W.F.SO	

WILSON F. SO & ASSOCIATES, INC.

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

WORK ORDER NO. 1510-570RR

CHINO BASIN MUNICIPAL WATER DISTRICT

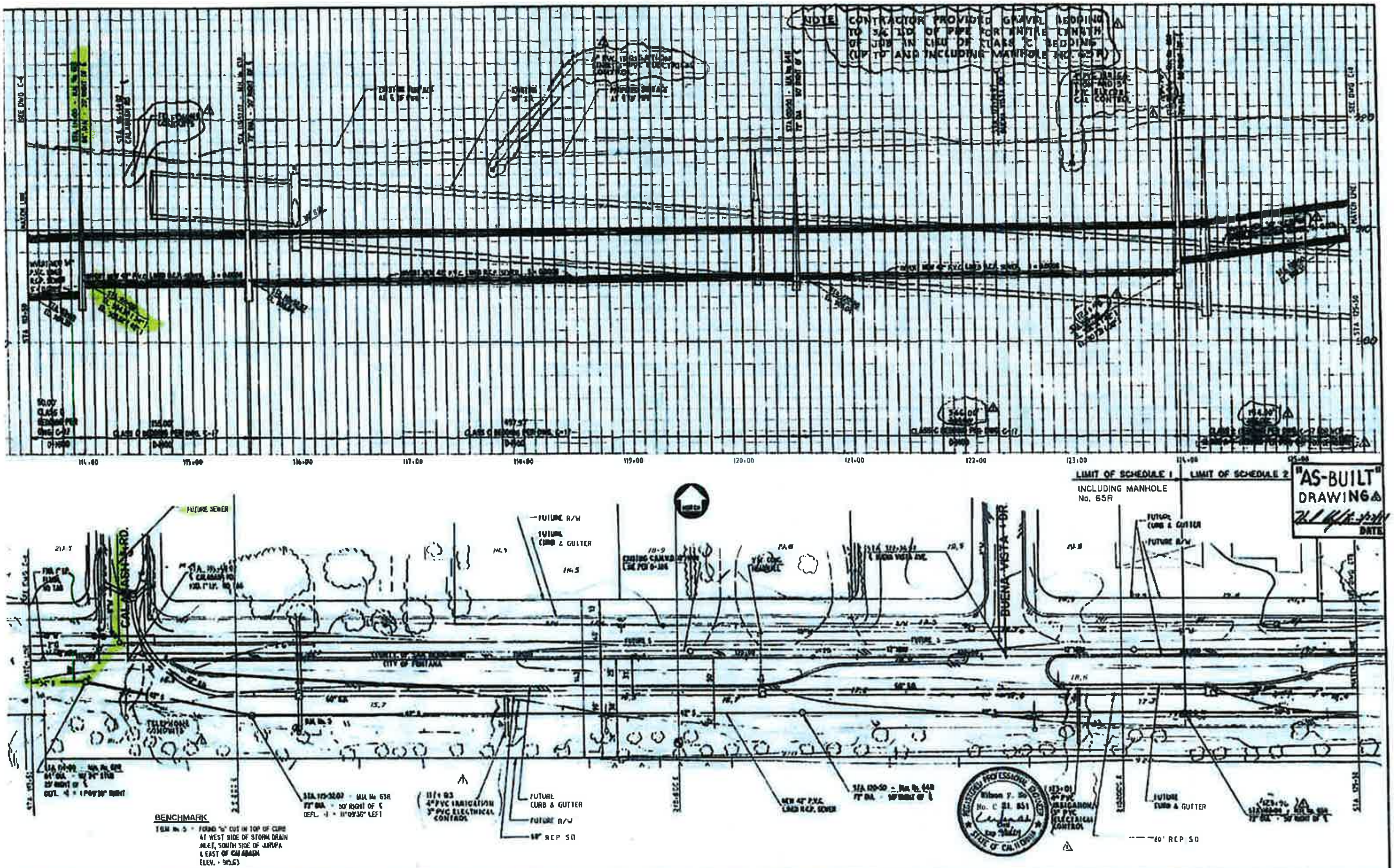
FONTANA INTERCEPTOR RELIEF SEWER PHASE II
JURUPA AVENUE - STA. 102+00 TO STA. 113+50

SHEET 7 OF 18

DRAWING NO. C-6

1881

D-4573-7



"AS-BUILT" DRAWING	T.W.	1/14/91	DESIGNED BY: MPP	PROJECT ENGINEER
REVISION DESCRIPTION	T.W.	1/14/91	DRAWN BY: CSE	SUBMITTED BY
	BY	DATE	CHECKED BY: WF SO	

PREPARED BY WILSON F. SO & ASSOCIATES, INC.

APPROVED BY: C.B.M.W.D. - PROJECT MANAGER

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

WORK ORDER NO 1510-570RR

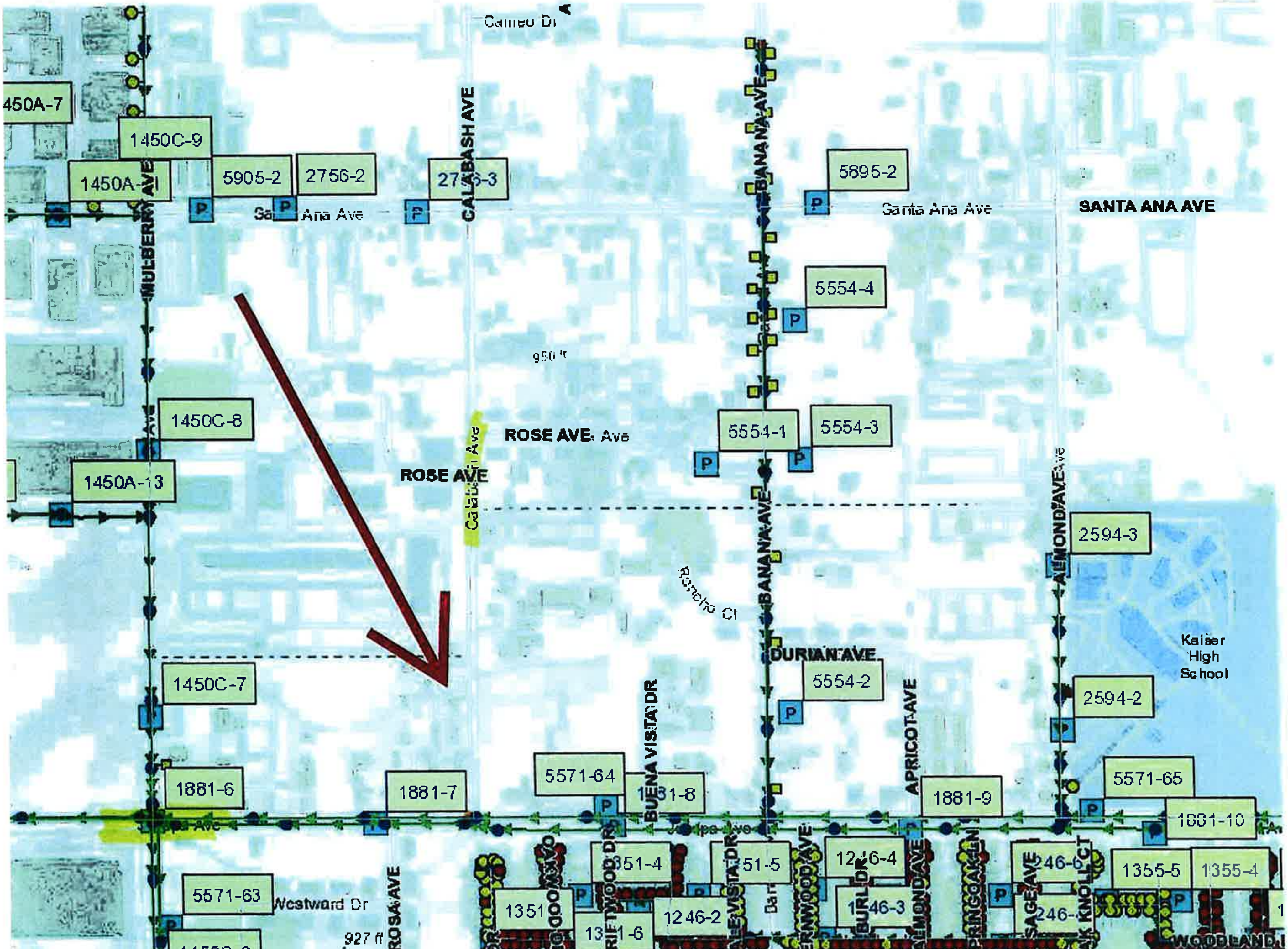
CHINO BASIN MUNICIPAL WATER DISTRICT

FONTANA INTERCEPTOR RELIEF SEWER PHASE II
JURUPA AVENUE - STA. 113+50 TO STA. 125+50

SHEET 8 OF 18

DRAWING NO C-7

1881 D-4573-8



Cameo Dr
450A-7
1450C-9
1450A-
MULBERRY AVE
5905-2
2756-2
CALABASH AVE
5895-2
Santa Ana Ave
SANTA ANA AVE
5554-4
950 ft
1450C-8
ROSE AVE Ave
5554-1
5554-3
1450A-13
ROSE AVE
BANANA AVE
ALMOND AVE
2594-3
Rancho Ct
Kaiser
High
School
DURIAN AVE
5554-2
1450C-7
BUENA VISTA DR
APRICOT AVE
2594-2
5571-64
1881-6
1881-7
1881-9
5571-65
1881-10
5571-63
Westward Dr
927 ft
1450C-6
1351
1355-5
1355-4
WOODLAND

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

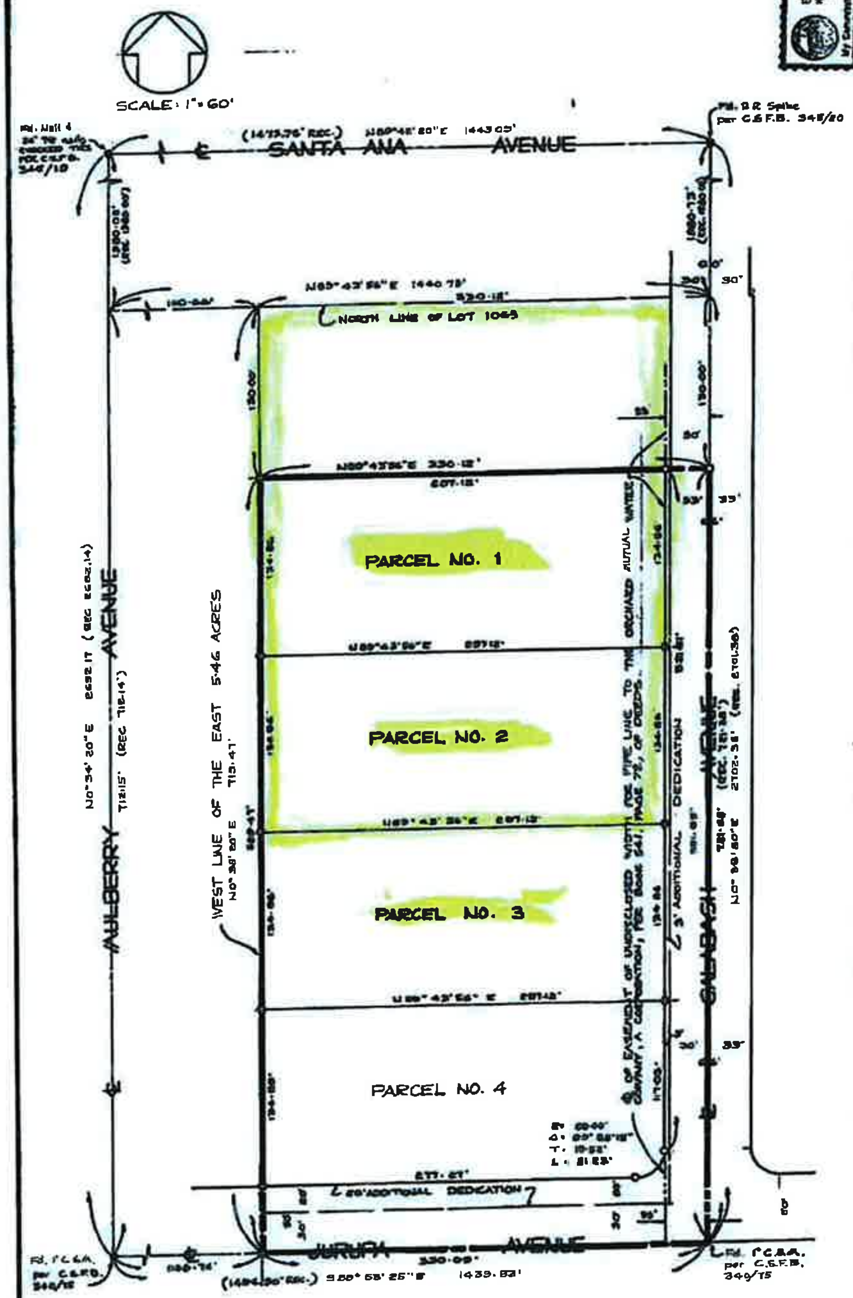
APPENDIX C

MISCELLANEOUS

PARCEL MAP NO. 3468

BEING A SUBDIVISION OF A PORTION OF THE EAST 5.46 ACRES OF LOT 1065 SEMI-TROPIC LAND AND WATER COMPANY SUBDIVISION AS PER PLAT RECORDED IN BOOK 11 OF MAPS, PAGE 12, RECORDS OF SAN BERNARDINO COUNTY, STATE OF CALIFORNIA.

NOTES:
1. BASIS OF BEARINGS: BEING THE CENTERLINE OF CALABASH AVENUE (N 0° 38' 20" E) PER PARCEL MAP NO. 1113 P.M.B. 9/78.
2. "REC" INDICATES RECORD PER M.B. 11/12 RECORDS OF SAN BERNARDINO COUNTY.
3. O INDICATES 1" I.P. SET, TAGGED R.C.E. NO. 9101
4. ● INDICATES MONUMENT FOUND, TYPE AND SIZE AS NOTED.
5. C.S.M. INDICATES COUNTY SURVEYORS MONUMENT.
6. C.S.F.B. INDICATES COUNTY SURVEYORS FIELDBOOK



OWNER'S CERTIFICATE

WE HEREBY CERTIFY THAT WE ARE ALL AND THE ONLY PARTIES HAVING ANY RECORD TITLE INTEREST IN THE LAND SUBDIVIDED AS SHOWN ON THIS MAP AND WE CONSENT TO THE PREPARATION AND RECORDATION OF THIS PARCEL MAP AND WE HEREBY OFFER TO DEDICATE TO THE COUNTY OF SAN BERNARDINO FOR PUBLIC USE ALL AVENUES SHOWN ON SAID MAP WITHIN SAID SUBDIVISION.

JAMES P. GUALTNEY — ANNA L. GUALTNEY

NOTARY ACKNOWLEDGEMENT

STATE OF CALIFORNIA } SS:
COUNTY OF SAN BERNARDINO }

ON THIS 11th DAY OF MAY 1977, BEFORE ME, Elizabeth T. Ullery, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE, PERSONALLY APPEARED JAMES P. GUALTNEY & ANNA L. GUALTNEY KNOWN TO ME TO BE THE PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE WITHIN INSTRUMENT, AND ACKNOWLEDGED TO ME THAT THEY EXECUTED THE SAME.

WITNESS MY HAND AND OFFICIAL SEAL

Elizabeth T. Ullery
NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE.
MY COMMISSION EXPIRES January 18, 1979

OFFICIAL SEAL ELIZABETH T. ULLERY NOTARY PUBLIC - CALIFORNIA SAN BERNARDINO COUNTY My Commission Expires Jan. 18, 1979

ENGINEER'S CERTIFICATE

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AT THE REQUEST OF JAMES P. GUALTNEY ON 1-26-77. I HEREBY STATE THAT THE PARCEL MAP PROCEDURES OF THE LOCAL AGENCY HAVE BEEN COMPLIED WITH AND THAT THIS PARCEL MAP CONFORMS TO THE APPROVED TENTATIVE MAP AND THE CONDITIONS OF APPROVAL THEREOF WHICH WERE REQUIRED TO BE FULFILLED PRIOR TO THE FILING OF THE PARCEL MAP.

CULBERTSON W. LOCKWOOD R.C.E. 9101 — May 4, 1977 DATE

COUNTY SURVEYOR'S CERTIFICATE

THIS MAP CONFORMS WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE

DATED: May 11, 1977 — EUGENE P. EHE, COUNTY SURVEYOR, COUNTY OF SAN BERNARDINO
BY [signature] DEPUTY

COUNTY SURVEYOR'S APPROVAL AND ACCEPTANCE CERTIFICATE

THE UNDERSIGNED OFFICER ON BEHALF OF THE BOARD OF SUPERVISORS, PURSUANT TO AUTHORITY CONFERRED BY CHAPTER 3, DIVISION 1, TITLE 6 OF THE SAN BERNARDINO COUNTY CODE, HEREBY APPROVES THIS MAP AND ACCEPTS JURUPA AVENUE AND CALABASH AVENUE, AS SHOWN ON THIS MAP.

DATE: May 11, 1977 — EUGENE P. EHE, COUNTY SURVEYOR COUNTY OF SAN BERNARDINO
BY [signature] DEPUTY

SIGNATURE OMISSIONS

THE SIGNATURES OF THE AUTHORIZED OFFICERS OF THE FONTANA COMPANY, A CORPORATION, THE OWNER OF AN EASEMENT FOR PIPE LINES AND INCIDENTAL PURPOSES [illegible] HAVE BEEN OMITTED UNDER THE PROVISIONS OF SECTION 66436 [illegible] OF THE SUBDIVISION MAP ACT. ITS INTEREST CANNOT RIPEN INTO A FEE, SAID EASEMENT CANNOT BE LOCATED OF RECORD.

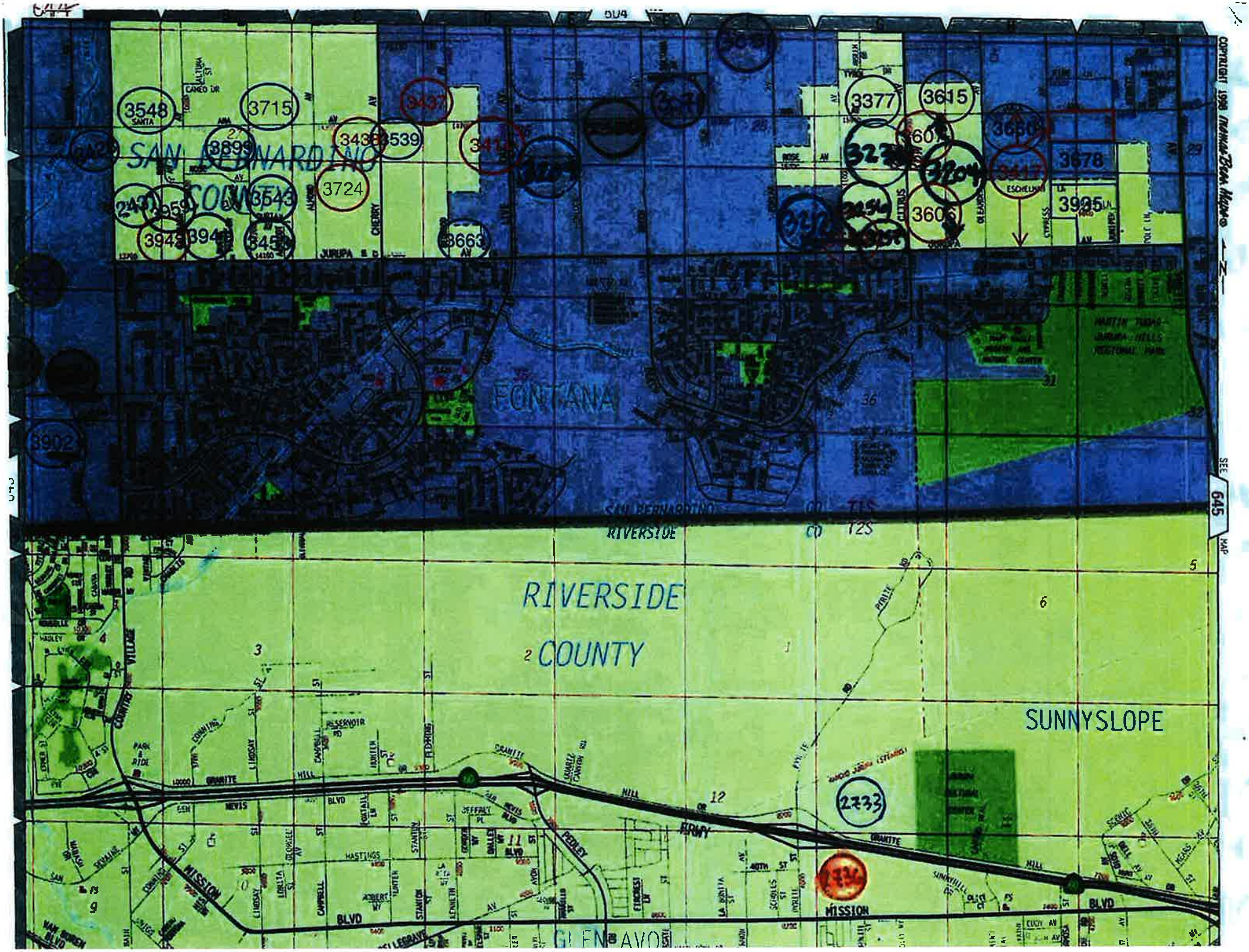
THE SIGNATURES OF THE AUTHORIZED OFFICERS OF THE ORCHARD MUTUAL WATER COMPANY, A CORPORATION, THE OWNER OF AN EASEMENT FOR WATER PIPE LINE AND INCIDENTAL PURPOSES AS DISCLOSED BY BOOK 541, PAGE 72, OF DEEDS, RECORDS OF SAN BERNARDINO COUNTY HAVE BEEN OMITTED UNDER THE PROVISIONS OF SECTION 66436, SUBSECTION (C)(1) OF THE SUBDIVISION MAP ACT. ITS INTEREST CANNOT RIPEN INTO A FEE.

THE SIGNATURES OF THE AUTHORIZED OFFICERS OF THE SECURITY FIRST NATIONAL BANK, THE OWNER OF AN EASEMENT FOR PIPE LINES AND INCIDENTAL PURPOSES AS DISCLOSED BY DOCUMENT RECORDED IN BOOK [illegible], PAGE [illegible], OFFICIAL RECORDS, RECORDS OF SAN BERNARDINO COUNTY HAVE BEEN OMITTED UNDER THE PROVISIONS OF SECTION 66436, SUBSECTION (C)(1) OF THE SUBDIVISION MAP ACT. ITS INTEREST CANNOT RIPEN INTO A FEE, SAID EASEMENT CANNOT BE LOCATED OF RECORD.

505
FILED REQUEST OF First American Title Co.
ON May 16, 1977
AT 9:30 A.M. IN
BOOK 33 PAGE 90
OF Parcel Maps
SAN BERNARDINO COUNTY
V. Dennis Wardle, Clerk-Recorder
FEE $5.00

VICINITY MAP

N.T.S.


SAN BERNARDINO
COUNTY
FONTANA
SAN BERNARDINO CO
RIVERSIDE CO
T1S
T2S
RIVERSIDE
COUNTY
SUNNYSLOPE
GLEN AVON
MISSION
BLVD
GRANITE
HILL
DR
FRWY
JURUPA
CHERRY
AV
SEE 645 MAP
COPYRIGHT 1998 Thomas Bros. Maps
3548
3715
3539
3724
3377
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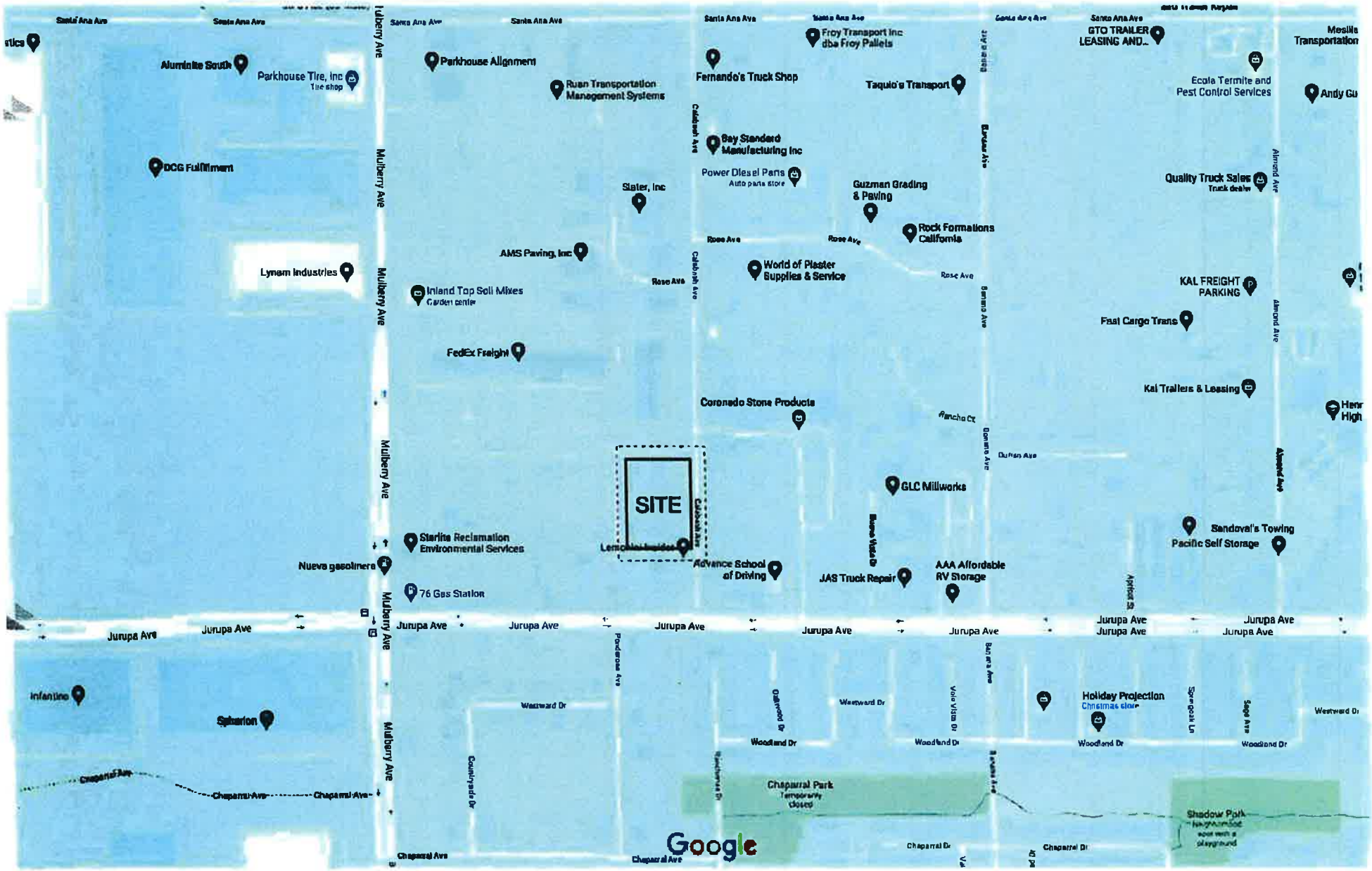
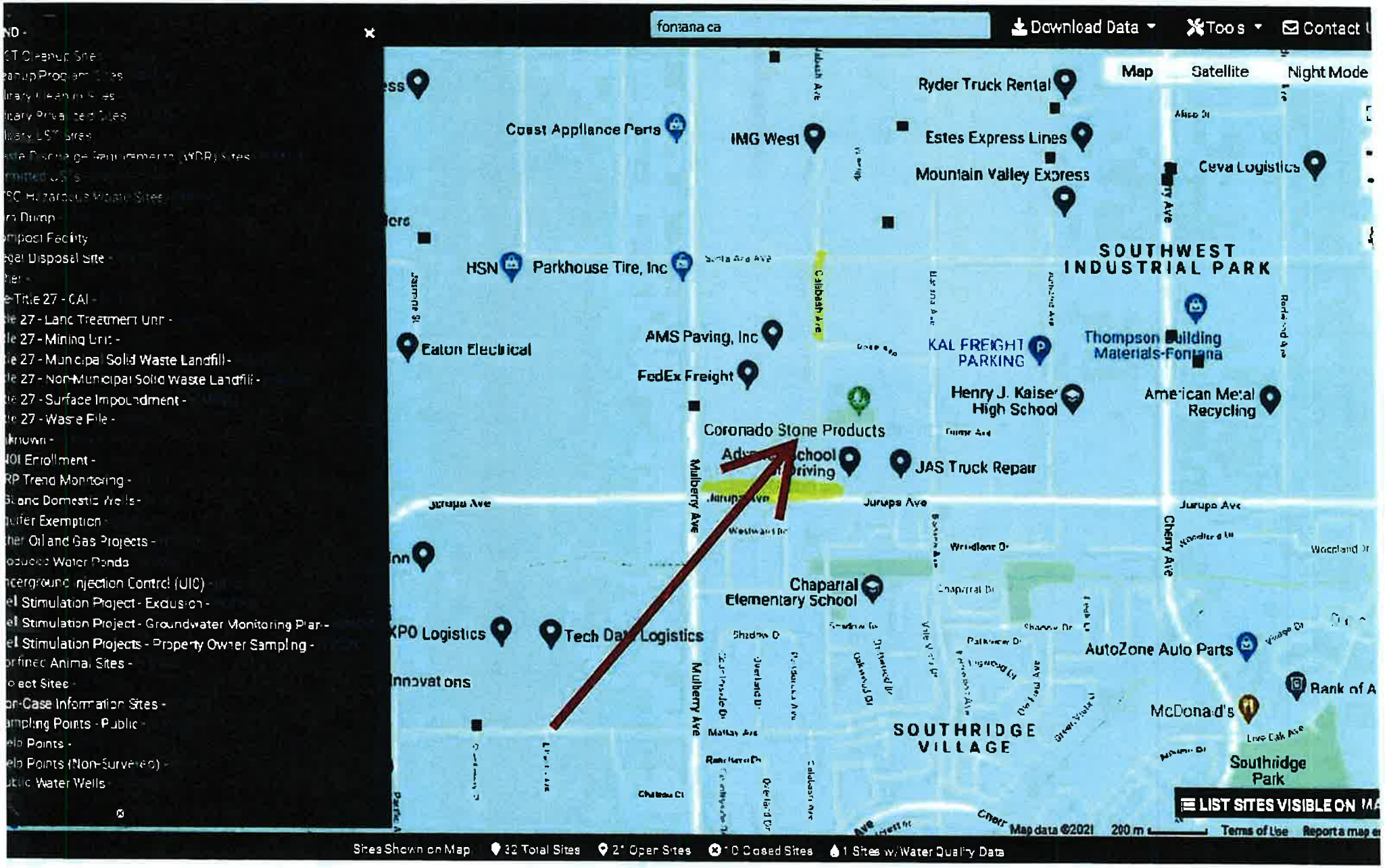
3678
3995
3902
3663
2733

Google Maps



Map data ©2021 Google 200 ft


fontana ca
Download Data
Tools
Contact
Map
Satellite
Night Mode
Ryder Truck Rental
Coast Appliance Parts
IMG West
Estes Express Lines
Mountain Valley Express
Ceva Logistics
SOUTHWEST INDUSTRIAL PARK
HSN
Parkhouse Tire, Inc
Eaton Electrical
AMS Paving, Inc
FedEx Freight
KAL FREIGHT PARKING
Thompson Building Materials-Fontana
Henry J. Kaiser High School
American Metal Recycling
Coronado Stone Products
JAS Truck Repair
Juruapa Ave
Mulberry Ave
Cherry Ave
Chaparral Elementary School
XPO Logistics
Tech Data Logistics
AutoZone Auto Parts
McDonald's
SOUTHRIDGE VILLAGE
Southridge Park
LIST SITES VISIBLE ON MA
Map data ©2021
200 m
Terms of Use
Report a map e
Sites Shown on Map
32 Total Sites
2 Open Sites
0 Closed Sites
1 Sites w/ Water Quality Data

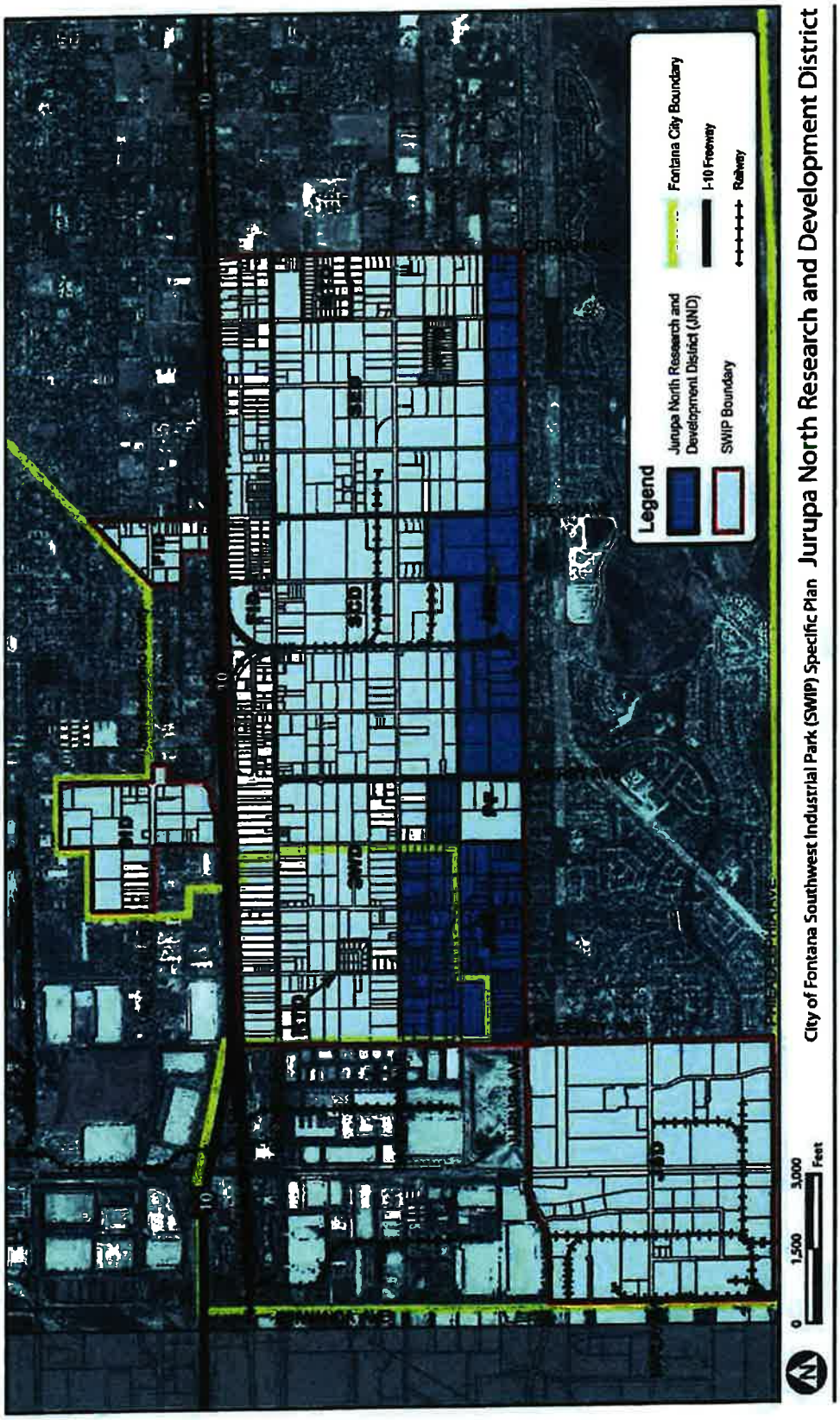
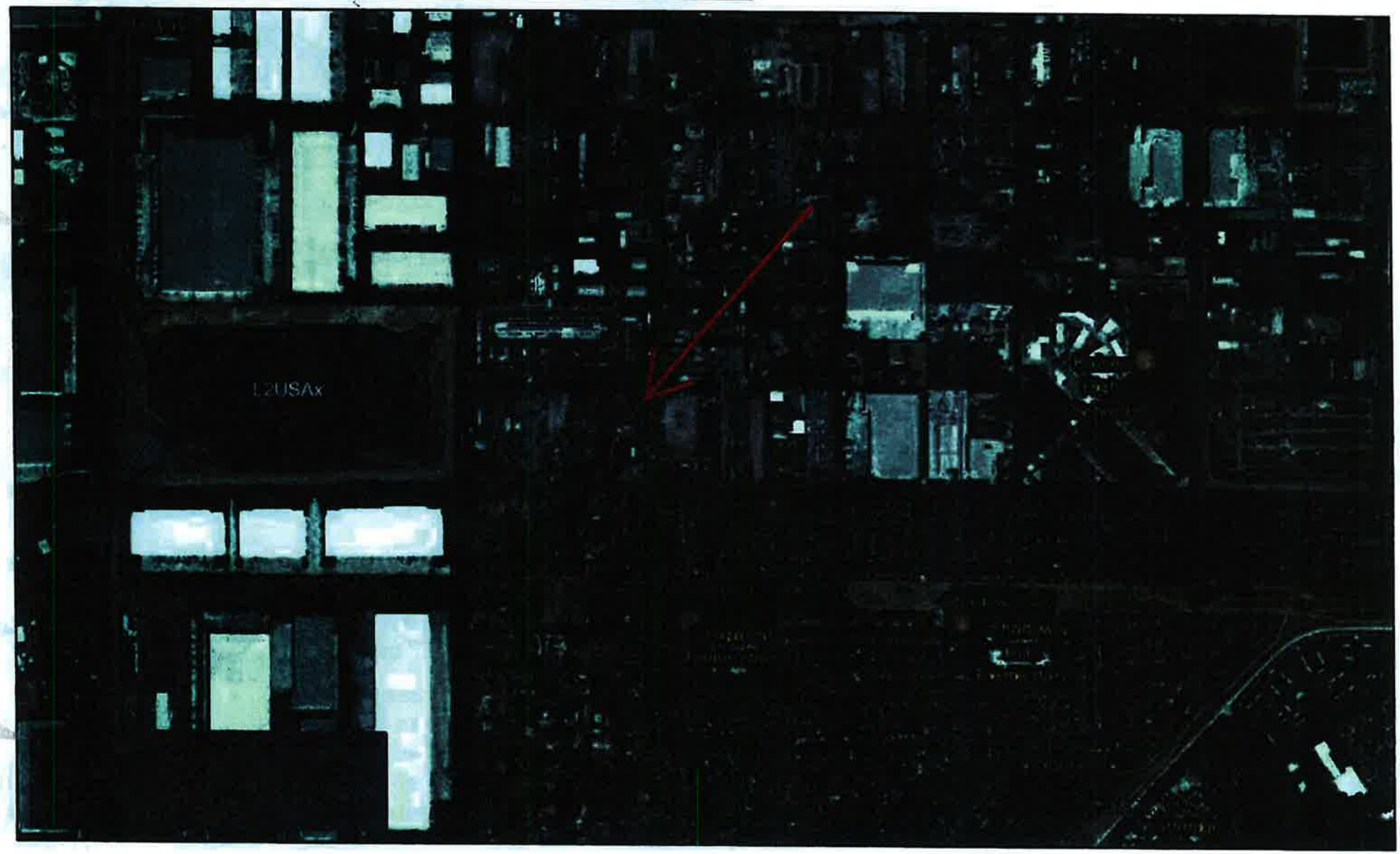


Exhibit 7-1 – Land Use Plan.

U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands



January 11, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

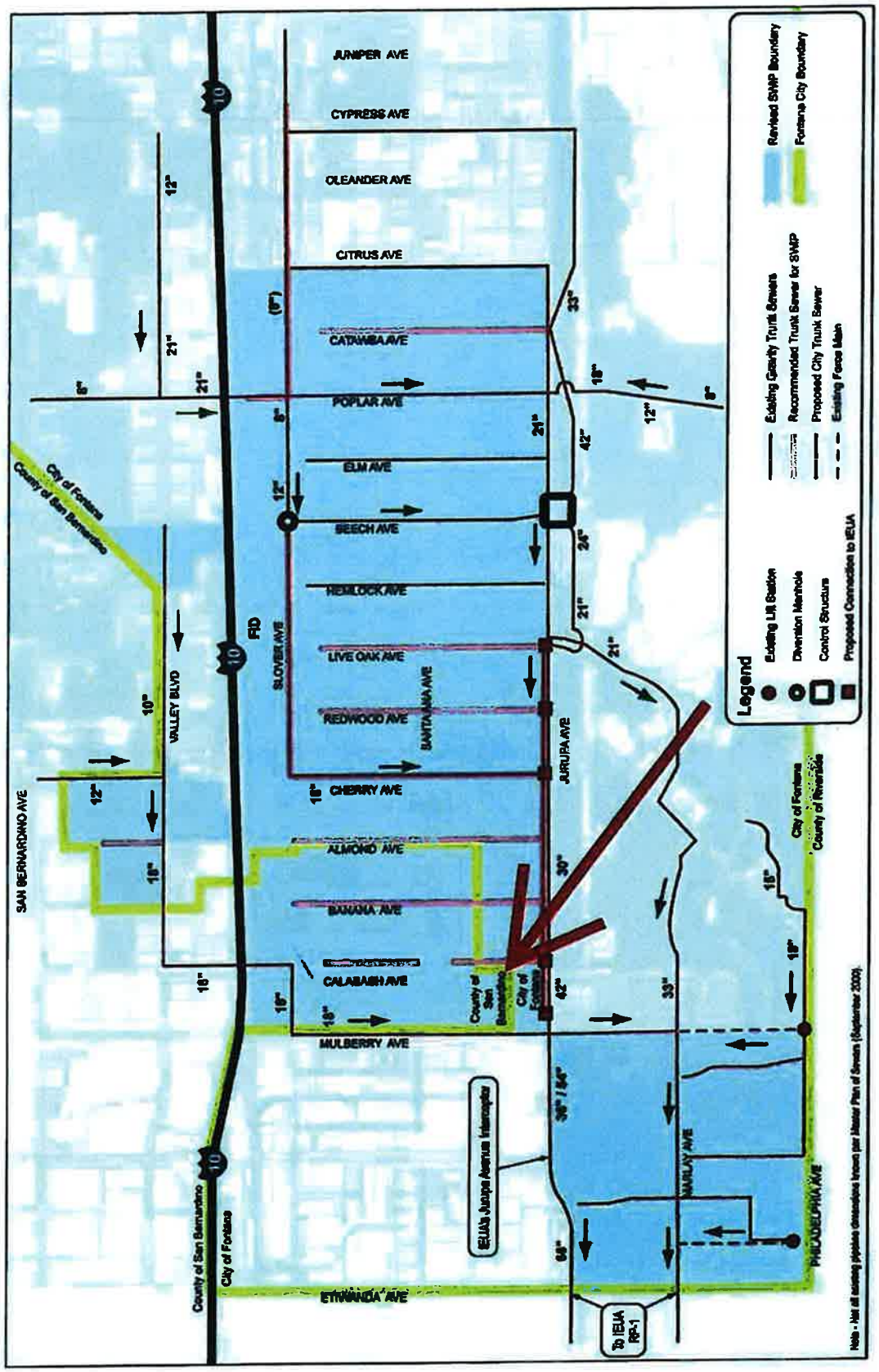
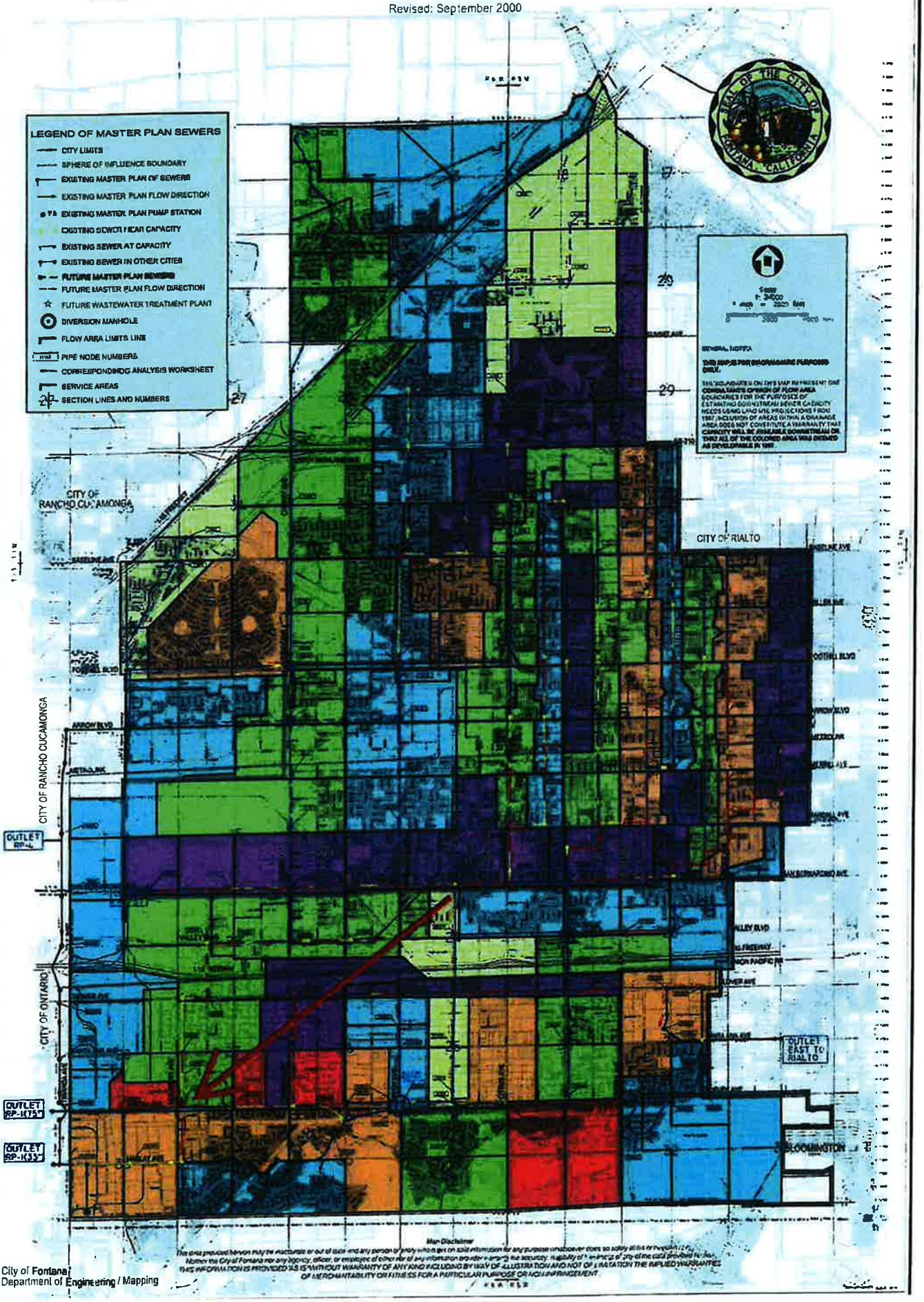


Exhibit 4-2 – Sewer Master Plan

City of Fontana, State of California

Master Plan of Sewers Update
Flow Conditions for the Year 2030

Revised: September 2000



Map Disclaimer

The data provided herein may be inaccurate or out of date and any person or entity who relies on said information for any purpose whatsoever does so solely at its own risk. Neither the City of Fontana nor any agency, officer, or employee of either of any information provided herein. THIS INFORMATION IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND INCLUDING BY WAY OF ILLUSTRATION AND NOT OF LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

City of Fontana
Department of Engineering / Mapping

City of Fontana Southwest Industrial Park (SWIP) Specific Plan Land Use Plan

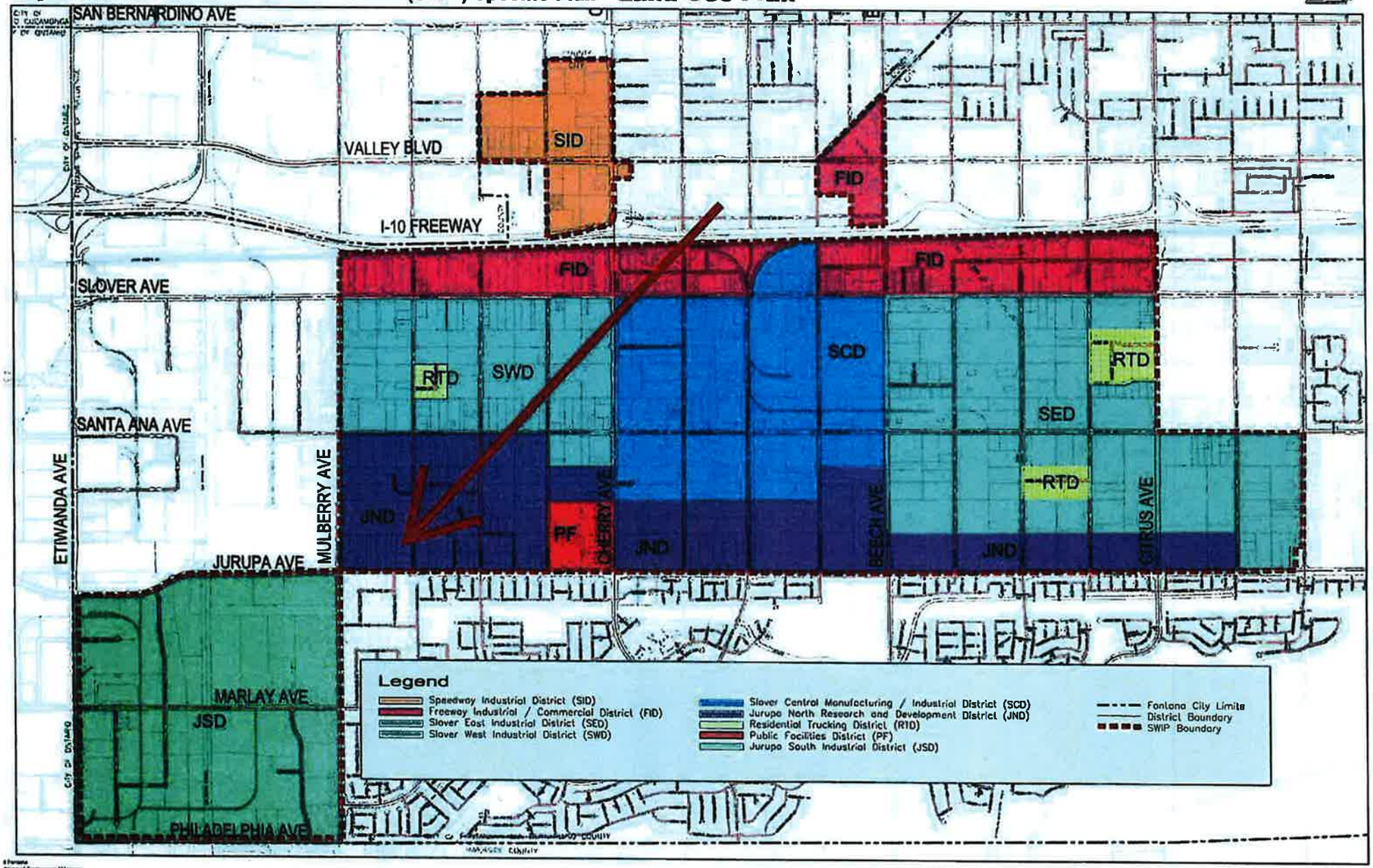


Table 4-3 Average Dry Weather Unit Flow Factors

Community Commercial	C-1	1100			
General Commercial	C-2	1600			
Light Industrial	M-1	300			
General Industrial	M-2	500			
Public Facilities	P-PF	1500			
Public Utility Corridors	P-UC	100			
Single Family Residential	R-1	850	2-5	3.5/3	243/283
Medium Density Residential	R-2	2450	5-12	8.5	288
Multi-Family Residential	R-3	5200	12-24	18	289
Residential Planned Community	R-PC	1200	3-6.4	4.5	267
Regional Mixed Use	R-MU	3000			
	R-E	850			
Right of Way	ROW	0			
Open Space	OS-N	0			
Open Space	OS-R	0			
Specific Plan[1]	SP	975		3.5	279

(1) Specific Plan (SP) areas are a mix of zoning categories. Analyzing aerial photos, most of the SP areas appeared similar in density to single family residential, thus a similar average edu/acre value was utilized. Large areas within the SP zones which appeared to be commercial or industrial were loaded using those unit flow rates within the model.

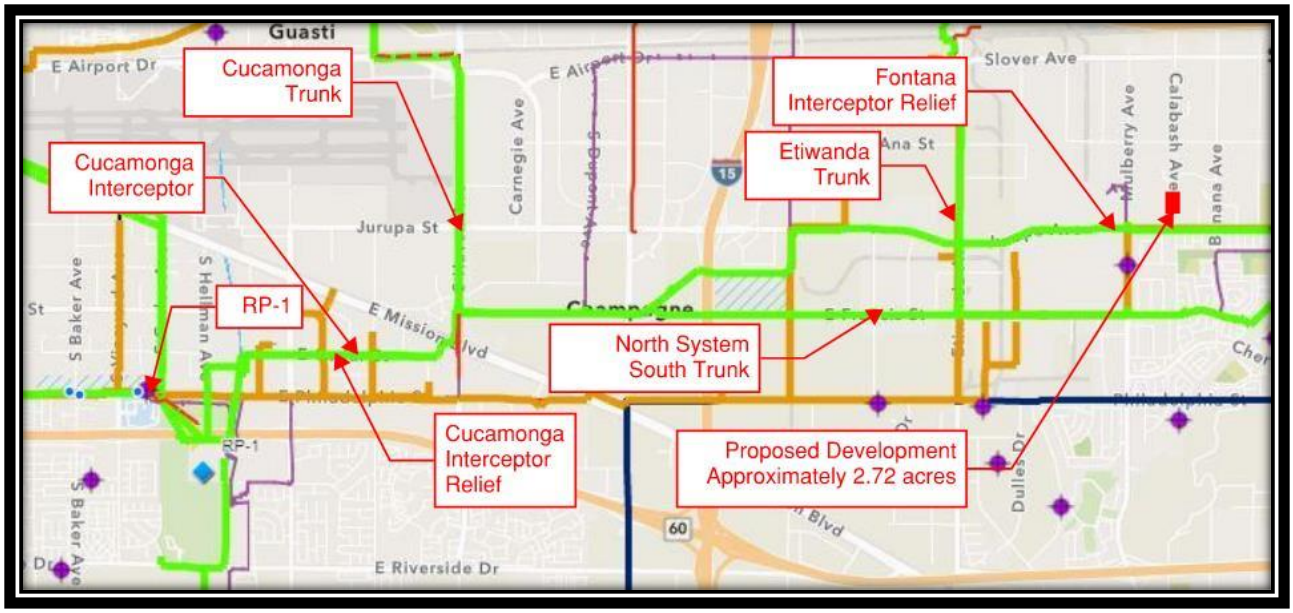
ATTACHMENT B
General Location for Connection F-35

Max Flow based on use
ADWF=0.1686 MGD

System Peaking for IEUA's Hydraulic Modeling
IEUA Peaking Factor

PWWF=0.3690 MGD

PWWF=0.4950 MGD



ACTION ITEM

1C

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: August 2022 / September 2022

To: Regional Technical Committee / Regional Policy Committee

From: Ken Tam, Manager of Environmental Services
IEUA – Planning & Resources Department

Subject: Building Activity Report (BAR) Ad-hoc Subcommittee Formation

RECOMMENDATION

It is requested that the Regional Committees approve the formation of the Ad-hoc Building Activity Report (BAR) Subcommittee.

BACKGROUND

In 2012, IEUA requested the formation of an Ad-hoc BAR Subcommittee through the Regional Technical Committee to streamline and bring uniformity to the monthly building activity reporting process, as well as to revise Exhibit J of the Regional Sewage Service Contract (Regional Contract). The process resulted in an improved BAR data processing system and an amendment to Exhibit J in 2013.

During the ongoing Regional Contract negotiation discussions, IEUA and the Contracting Agencies identified several topics which warrant further subcommittee review. Some initial topics identified include monthly sewer user fee collection, handling users with no record of Equivalent Dwelling Unit (EDU) capacity purchases, and addressing Accessory Dwelling Unit (ADU) connection fees. As such, the group has requested the formation of a new Ad-hoc BAR Subcommittee in order to address EDU related concerns on an as-needed basis. The proposed members of the subcommittee would include IEUA and each of the Contracting Agencies. The proposed structure would include having IEUA working in collaboration with the Contracting Agencies to develop agendas, and with each Agency bringing pertinent subject matter experts to each meeting based on the topic of discussion. Conclusions drawn from the subcommittee will be documented and reported to the Regional Committees for consideration.

ATTACHMENTS

Attachment 1 – PowerPoint Presentation

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Building Activity Report (BAR)
Ad-hoc Subcommittee Formation

Ken Tam
Manager of Environmental Services
August/September 2022

Background

- In 2012, IEUA requested an Ad-hoc Building Activity Report (BAR) Subcommittee be formed through the Regional Technical Committee
  - Goals:
    - Review and streamline the BAR process
    - Discuss, clarify, and update Exhibit J
  - Results from the Subcommittee
    - BAR Template
    - Exhibit J Amendment

- 2021/22 - Regional Contract Negotiation conceptually agrees to a standing BAR Subcommittee to address fee collection uniformity

- 2022 - IEUA and Contracting Agencies identify several additional topics in need of evaluation

Goals, Topics, Structure, & Reporting

- Goals of 2022 BAR Ad-hoc Subcommittee
  - Forum for Contracting Agencies and IEUA to discuss topics of concern
  - Create and reinforce regionally uniform methods for sewerage program fee collection

- Topics of Discussion
  - Monthly Sewer Use Fees
  - Evaluation of Industrial Users with no records of EDU purchases
  - Accessory Dwelling Units
  - Additional topics from members of the Subcommittee

- Structure
  - IEUA to develop agendas for topics of discussion
  - Contracting Agencies to send subject matter experts to meetings (depending on topic)

- Reporting
  - Conclusions from Subcommittee to be documented
  - Subcommittee to report conclusions to Regional Technical Committee

Recommendation

It is requested that the Regional Committees approve the formation of the Ad-hoc Building Activity Report (BAR) Subcommittee

INFORMATION ITEM

2A

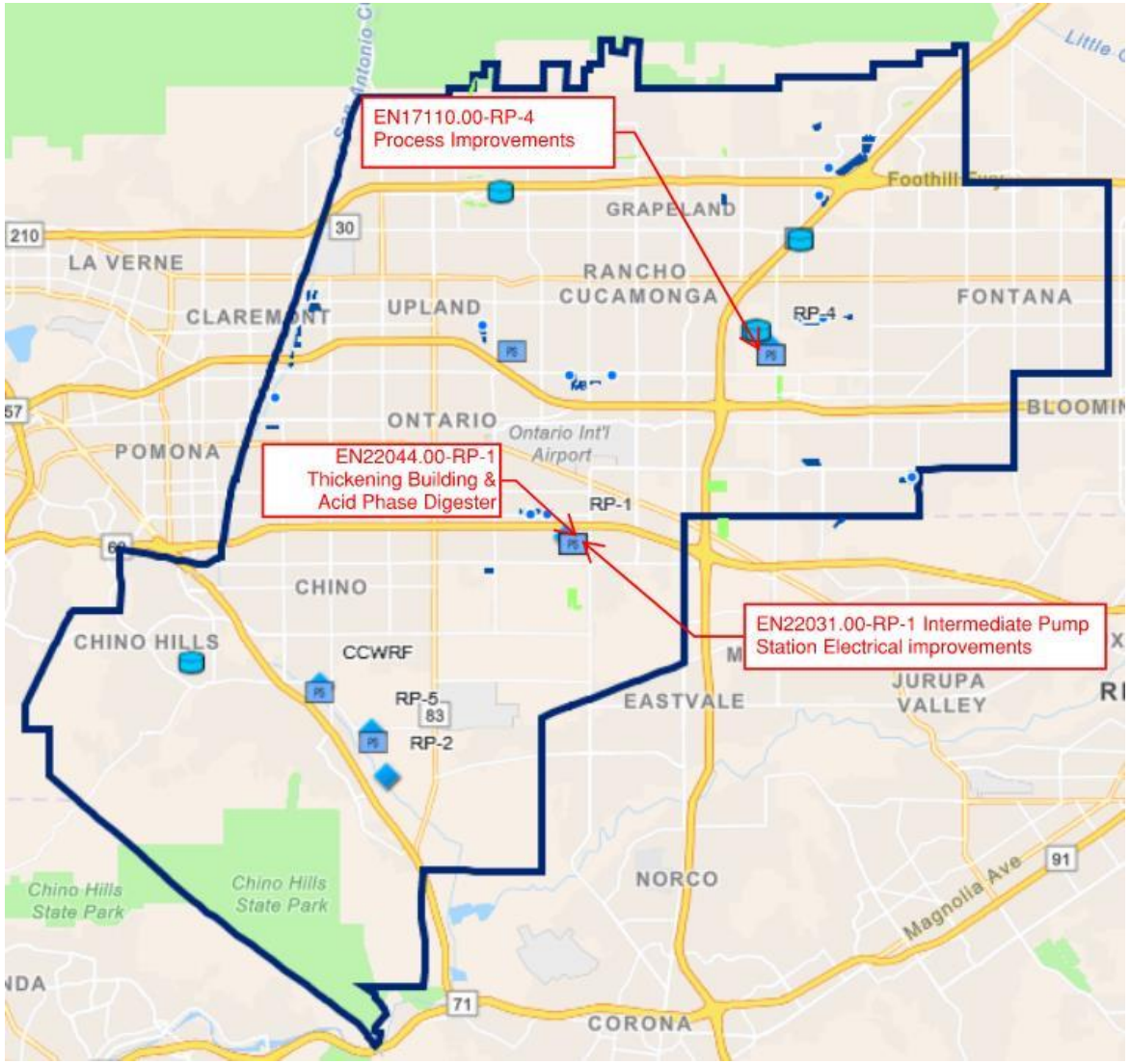
Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Engineering and Construction Management Quarterly Project Updates Regional Tech/Policy Committees

Jason Marseilles, P.E.
Manager of Engineering

August/September 2022

Project Location Map



Primary Clarifier Rehabilitation/ RP-4 Process Improvements

Project Goal: Extend Asset Life & Improve Efficiencies

Total Project Budget: $17M
Project Completion: September 2022
Construction Percent Complete: 98%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design	Carollo Engineering	$1.7M	25%
Construction (Current)	W.M. Lyles	$13.5M	22%

Project Management Team	
Project Manager:	Spears, James
Assistant/Associate Engineer:	Salazar, Victoria
Administrative Assistant:	Olsen, Wendy
Inspector:	Carollo

Demo of Turblex Blowers

RP-1 Intermediate PS Electrical Improvements

Project Goal: Rehabilitate/Repair Existing Assets

Intermediate Pump Station

Total Project Budget: $9M
Project Completion: April 2025
Design Percent Complete: 10%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Pre-Design (Current)	GHD	$1.1M	0%
Construction	TBD	$0	0%

Project Management Team	
Project Manager:	Simpson, James
Assistant/Associate Engineer:	Asprer, Kevin
Administrative Assistant:	Wallace & Associates
Inspector:	TBD

RP-1 Thickening Building & Acid Phase Digester

Project Goal: Increase Treatment Capacity

Total Project Budget: $133M
Project Completion: November 2026
Design Percent Complete: 30%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design (Current)	Carollo Engineering	$7.3M	14%
Construction	TBD	$0M	0%

Project Management Team	
Project Manager:	Simpson, James
Assistant/Associate Engineer:	Asprer, Kevin
Administrative Assistant:	Wallace & Associates
Inspector:	TBD

Project Site

RECEIVE AND FILE

3A

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Regional Sewerage Program
Policy Committee Meeting

AGENDA
Thursday, September 1, 2022
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_NWU1NzA2NDktM2VjMC00NDU1LTkxMmUtMjYyMjA2YWM3YWU4%40thread.v2/0?context=%7b%22Tid%22%3a%224c0c1e57-30f3-4048-9bd2-cd58917dcf07%22%2c%22Oid%22%3a%22329ec40e-eb94-4218-9621-6bfa0baa9697%22%7d

Teleconference: 1-415-856-9169/Conference ID: 552 973 583#

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 lmantilla@ieua.org 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.

(Continued)

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 July 7, 2022 Policy Committee Meeting Minutes
   B. Request to Establish Ad-hoc BAR Subcommittee

3. **Informational Items**
   A. Regional Contract Negotiation Update *(Oral)*
   B. Engineering & Construction Management Quarterly Project Updates
   C. Chino Basin Program Update

4. **Receive and File**
   A. Building Activity Report
   B. Recycled Water Distribution – Operations Summary

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 – October 6, 2022

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 lmantilla@ieua.org 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

RECEIVE AND FILE

3B

Building Activity Report - YTD Fiscal Year 2021/22

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Legend

Service Area
Unincorporated

Residential
<=1.0
1.0 - 10.0
>10.0

Commercial
<=1.0
1.0 - 10.0
>10.0

Industrial
<=1.0
1.0 - 10.0
>10.0

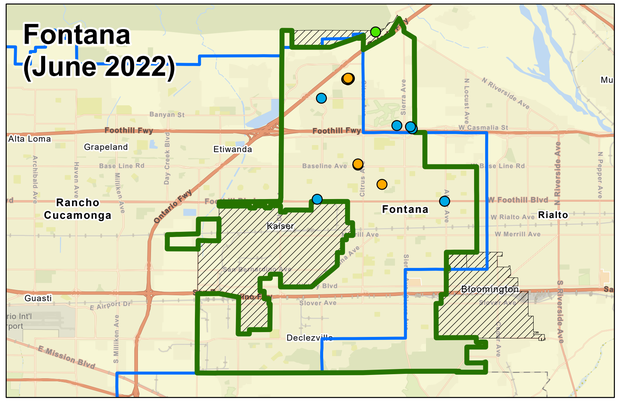
HALF MILE GRID: TOTAL EDU's (YTD)

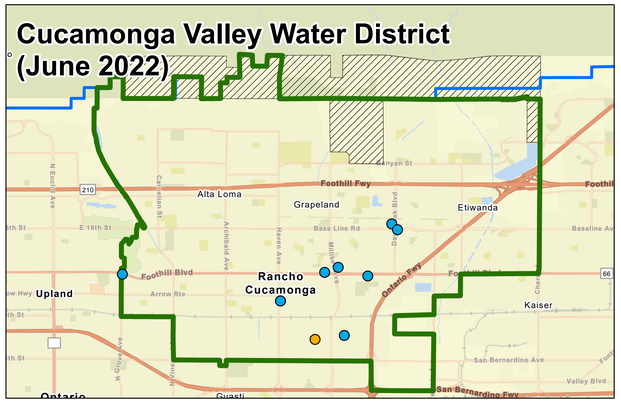
0 0.5 1 15 30 45 75+

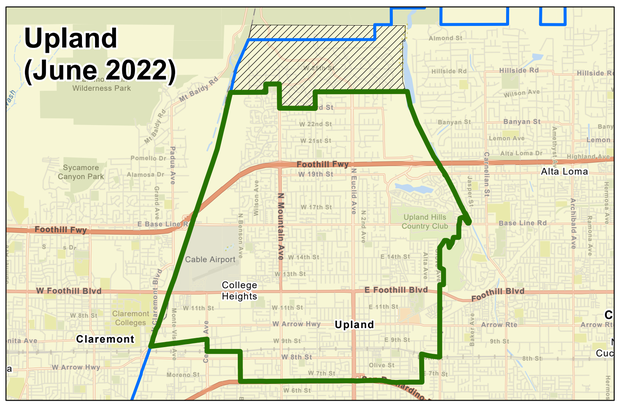
0 2.5 5 10 Miles

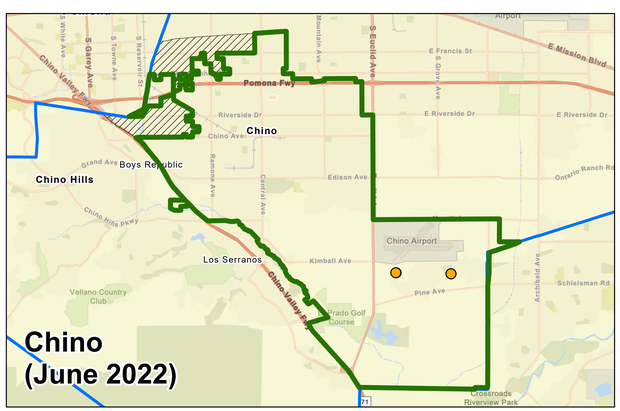
TOTAL EDU BY WASTEWATER CONNECTION TYPE (YTD)

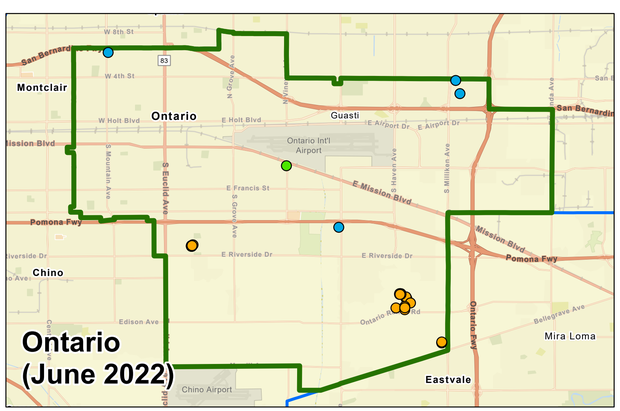
Contracting Agency	YTD Actual				Projected
	Commercial (EDUs)	Industrial (EDUs)	Residential (EDUs)	Total (EDUs)	Total (EDUs)
Chino	80	0	718	799	434
Chino Hills	49	0	63	112	276
CVWD	112	322	764	1198	2050
Fontana	125	7	670	802	1792
Montclair	10	0	0	10	474
Ontario	247	41	1264	1552	7560
Upland	23	0	43	66	952
Total	646	371	3523	4539	13538

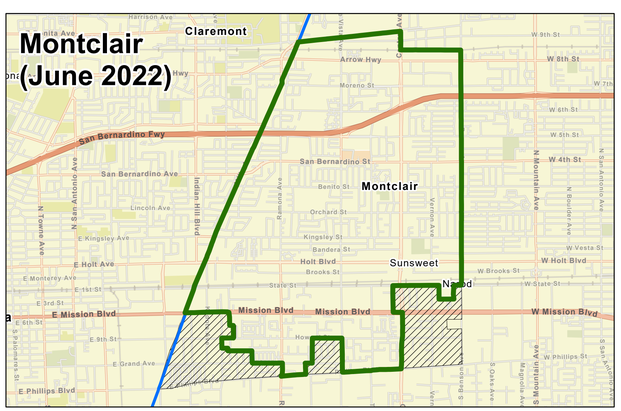








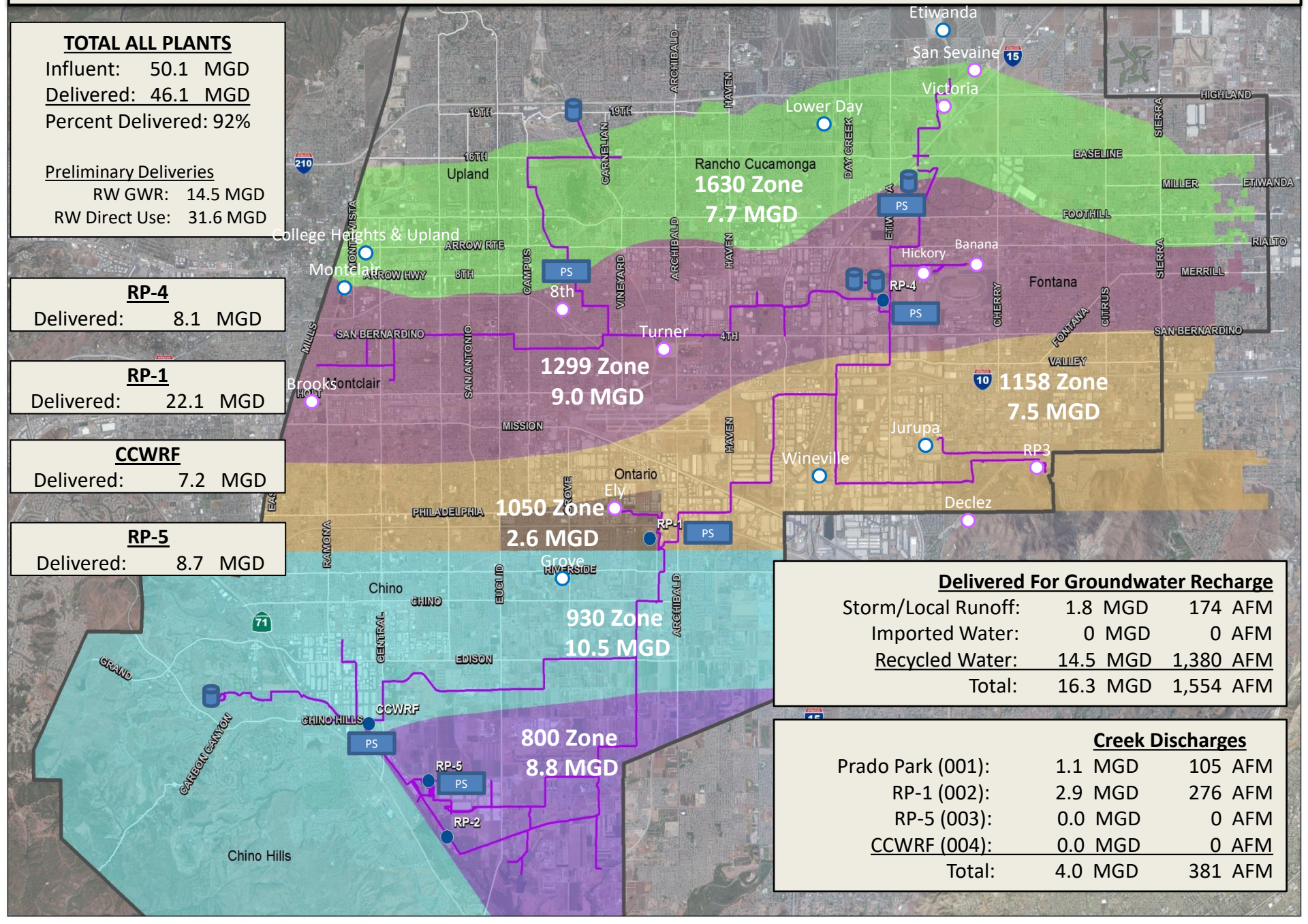




RECEIVE AND FILE

3C

IEUA RECYCLED WATER DISTRIBUTION – JULY 2022



TOTAL ALL PLANTS

Influent: 50.1 MGD
Delivered: 46.1 MGD
Percent Delivered: 92%

Preliminary Deliveries
RW GWR: 14.5 MGD
RW Direct Use: 31.6 MGD

RP-4
Delivered: 8.1 MGD

RP-1
Delivered: 22.1 MGD

CCWRF
Delivered: 7.2 MGD

RP-5
Delivered: 8.7 MGD

Delivered For Groundwater Recharge

Storm/Local Runoff:	1.8 MGD	174 AFM
Imported Water:	0 MGD	0 AFM
Recycled Water:	14.5 MGD	1,380 AFM
Total:	16.3 MGD	1,554 AFM

Creek Discharges

Prado Park (001):	1.1 MGD	105 AFM
RP-1 (002):	2.9 MGD	276 AFM
RP-5 (003):	0.0 MGD	0 AFM
CCWRF (004):	0.0 MGD	0 AFM
Total:	4.0 MGD	381 AFM

Recycled Water Recharge Actuals - July 2022 (Acre-Feet)

Basin	7/1-7/2	7/3-7/9	7/10-7/16	7/17-7/23	7/24-7/31	Month Actual	FY To Date Actual	Deliveries are draft until reported as final and do not included evaporative losses.
Ely	11.8	51.2	42.0	5.0	0.0	110.0	110	
Banana	0.0	0.0	0.0	0.0	0.0	0.0	0	
Hickory	0.0	0.0	12.6	15.4	4.3	32.3	32	
Turner 1 & 2	0.0	0.0	0.0	0.0	20.2	20.2	70	
Turner 3 & 4	11.1	1.7	20.6	12.7	3.2	49.3		
8th Street	25.0	59.8	72.6	74.3	90.8	322.4	323	
Brooks	0.0	0.0	0.0	0.0	0.0	0.0	0	
RP3	7.0	21.7	54.1	89.9	138.6	311.3	311	
Declez	0.0	0.0	0.0	0.0	0.0	0.0	0	
Victoria	13.9	39.1	11.4	0.0	0.0	64.4	64	
San Sevaine	25.0	77.0	100.5	112.6	141.2	456.3	470	
Total	93.8	250.5	313.8	309.9	398.3	1,366.2	1,380	1,209 AF previous FY to day actual