Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Regional Sewerage Program
Technical Committee Meeting

AGENDA
Thursday, June 29, 2023
2:00 p.m.

Teams Conference Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_ODQ1MWU5ODUtOGI3ZC00NWViLWI0YmItOTI1NmYzYzcwZGYy%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: 269 959 360#

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 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.

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.

(Continued)

1. **Action Items**
   A. Approval of May 25, 2023 Technical Committee Meeting Minutes
   B. Request by the City of Fontana for a Regional Connection Point to the Fontana Interceptor #F-37

2. **Information Item**
   A. Pretreatment & Compliance Updates (*Oral)*

3. **Receive and File**
   A. Building Activity Report

4. **Other Business**
   A. Committee Member Requested Agenda Items for Next Meeting
   B. Committee Member Comments
   C. Next Regular Meeting – July 27, 2023

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 MAY 25, 2023

CALL TO ORDER

A regular meeting of the IEUA/Regional Sewerage Program – Technical Committee was held via teleconference on Thursday, May 25, 2023. Committee Chair Amanda Coker/City of Chino Hills called the meeting to order at 2:00 p.m. Recording Secretary Laura Mantilla took roll call and established a quorum was present.

COMMITTEE MEMBERS PRESENT VIRTUALLY:

Ron Craig	City of Chino Hills
Amanda Coker	Cucamonga Valley Water District (CVWD)
Brian Wolfe	City of Fontana
Chris Quach	City of Ontario
Nicole deMoet	City of Upland
Christiana Daisy	Inland Empire Utilities Agency (IEUA)

OTHERS PRESENT VIRTUALLY:

Natalie Avila	City of Chino
Courtney Jones	City of Ontario
Justin Scott-Coe	Monte Vista Water District
Adham Almasri	IEUA
Arin Boughan	IEUA
Jerry Burke	IEUA
Javier Chagoyen-Lazaro	IEUA
Kristine Day	IEUA
Don Hamlett	IEUA
Branden Hodges	IEUA
Michael Hurley	IEUA
Elizabeth Hurst	IEUA
Nolan King	IEUA
Randy Lee	IEUA
Scott Lening	IEUA
Eddie Lin	IEUA
Alex Lopez	IEUA
Laura Mantilla	IEUA

OTHERS PRESENT VIRTUALLY (continued):

Liza Muñoz	IEUA
Alyson Piguee	IEUA
Travis Sprague	IEUA
Ken Tam	IEUA
Ruben Valdez	IEUA

PUBLIC COMMENTS

There were no public comments.

ADDITIONS/CHANGES TO THE AGENDA

There were no additions to the agenda. Committee member Daisy recommended Information item 2A – Ten-Year Capital Improvement Plan (TYCIP) and Sewer Capital Forecast FY 2023/24-2032/33 be presented before Action item 1C as it relates to the biennial budget.

1. **ACTION ITEMS**

   A. **APPROVAL OF APRIL 27, 2023 TECHNICAL COMMITTEE MEETING MINUTES**

   Motion: By Committee member deMoet/City of Upland and seconded by Committee member Craig/City of Chino Hills to approve the minutes of April 27, 2023 Regional Technical Committee meeting with a correction on page 3, paragraph 3 to change alienated to delineated by the following vote:

   Ayes: Craig, Daisy, deMoet, Quach, Wolfe, Coker
   Noes: None
   Absent: Crosley, Heredia
   Abstain: None
   The motion passed by a vote of 6 ayes, 0 noes, 2 absent, 0 abstain.

   B. **BUILDING ACTIVITY REPORT (BAR) SUBCOMMITTEE REPORT & PROCEDURAL GUIDELINE LANGUAGE ADOPTION**

   Ken Tam/IEUA provided background on the formation of the BAR Subcommittee and reviewed the schedule of future meetings on various topics. Ruben Valdez/IEUA reviewed the BAR Subcommittee's procedural guidance language and recommended that the Regional Technical Committee adopt the following language:

   "In the case of a permitted industrial user facility that has limited or no records of Equivalent Dwelling Unit (EDU) purchases with the Contracting Agency and/or IEUA, the listed capacity in their current discharge permit should be considered as being paid for after the following are considered on a case-by-case basis. Since the EDU formula is comprised of flow, BOD, and TSS, at a minimum the most current 1-year Flow, BOD and TSS average should be considered through representative sampling for evaluating the facility's EDU balance. Should there be other historical records that exist which make reference to past discharge practices, they shall also be considered. The local contracting agency shall verify the EDUs in question do not exceed the capacity of its collection system. The evaluation shall

then be brought to the BAR Subcommittee for review and consideration prior to allocating EDUs. Upon approval by the BAR Subcommittee, the recommended allocation will be submitted to the Technical Committee for consideration and approval and an agreement documenting the EDU allocation shall be established between the facility, the Contracting Agency, and IEUA."

Motion: By Committee member deMoet/City of Upland and seconded by Committee member Craig/City of Chino Hills, the Committee adopted the procedural guideline language by the following vote:

Ayes:	Craig, Daisy, deMoet, Quach, Wolfe, Coker
Noes:	None
Absent:	Crosley, Heredia
Abstain:	None

The motion passed by a vote of 6 ayes, 0 noes, 2 absent, 0 abstain.

Chair Coker pulled item 2A Ten-Year Capital Improvement Plan (TYCIP) & Ten-Year Sewer Capital Forecast FY2023/24 for discussion as it relates to the biennial budget.

2A. TEN-YEAR CAPITAL IMPROVEMENT PLAN & TEN-YEAR SEWER CAPITAL FORECAST FY 2023/24-FY 2032/33 (INFORMATION ITEM)

Jerry Burke/IEUA provided an overview of the TYCIP and reviewed the proposed TYCIP expenditures, capital improvement projects, and Ten-Year Sewer Capital Forecast.

Chair Coker requested information on the RP-1 Recovery Project. Mr. Burke provided a high-level update and stated that staff can provide a more detailed presentation at a future meeting. Chair Coker requested this item be added to a future agenda.

Committee member Daisy stated that the Ten-Year Sewer Capital Forecast report was emailed to the Committee on May 24 for their reference.

C. REVIEW OF PROPOSED BIENNIAL BUDGET FOR FISCAL YEARS 2023/24 AND 2024/25 FOR THE REGIONAL WASTEWATER AND RECYCLED WATER PROGRAMS

Alex Lopez/IEUA provided the staff presentation and reviewed the proposed rates and fees, proposed property tax allocation, total sources and uses of funds, fund reserves, and cost of service for the Regional Wastewater and Recycled Water programs. Discussion ensued regarding the sustainability of the reserve funds in the long-term forecast. Kristine Day/IEUA stated that staff is working on this and will present an item to the Regional Committees in late summer or early fall.

Motion: By Committee member deMoet/City of Upland and seconded by Committee member Craig/City of Chino Hills that the Regional Committees recommend approval to the IEUA Board of Directors of the proposed FYs 2023/24 and 2024/25 Biennial Budget for the Agency's Regional Wastewater Capital Improvement Fund and the Regional Wastewater Operations and Maintenance Fund by the following vote:

Ayes: Craig, Daisy, deMoet, Quach, Wolfe, Coker
Noes: None
Absent: Crosley, Heredia
Abstain: None
The motion passed by a vote of 6 ayes, 0 noes, 2 absent, 0 abstain.

2. INFORMATION ITEMS

A. TEN-YEAR CAPITAL IMPROVEMENT PLAN & TEN-YEAR SEWER FORECAST FY 2023/24- FY 2032/33
This item was pulled and presented before the proposed biennial budget.

B. CONSULTING PROGRAM MANAGEMENT AND OWNER ENGINEERING SOLICITATION UPDATE
Adham Almasri/IEUA stated that the consulting program manager and their team will support the implementation of the Advanced Water Purification Facility and various potential projects. Mr. Almasri discussed salinity and per-and polyfluoroalkyl substances (PFAS), various projects of the recycled water program expansion, and the consultant program manager's areas of service. Mr. Almasri explained the consulting proposals solicitation steps, evaluation criteria, and next steps.

C. PRETREATMENT & COMPLIANCE UPDATES
Ken Tam/IEUA reported that CCWRF failed toxicity last month and is in accelerated testing mode. RP-5 also failed toxicity and will be performing accelerated monitoring. Mr. Tam noted that on May 10, IEUA and mutual aid partners performed a sanitary sewer overflow drill at the Ontario Municipal Utilities Company Training Facility.

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
Committee member Craig expressed his appreciation for IEUA's discussion on budgets and the TYCIP as it relates to PFAS, permit planning, and cost planning.

Chair Coker stated she appreciates IEUA's proactiveness on the issue and looks forward to hearing proposed solutions.

C. NEXT MEETING – JUNE 29, 2023

ADJOURNMENT – Chair Coker adjourned the meeting at 3:07 p.m.

Prepared by: _____
Laura Mantilla

ACTION ITEM

1B

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: June 29, 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 (Fontana Regional Sewer Connection # F-37) Project EN0000000173

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Fontana for one new connection point to the Fontana Interceptor Sewer (Regional Sewer Connection # F-37).

BACKGROUND

On May 23, 2023, 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 Sewer at Station 234+81.40. This connection will need to be through a new manhole on the south side of this tributary area to the existing 33-inch V.C.P. sewer.

The connection point is required to serve a single-family and additional dwelling, residential connection, as well as any future septic-to-sewer conversion in this neighborhood. The Regional Board has required connection to a sewer versus the use of the sites existing septic system. The project is located west of Overland Dr., east Countryside Dr., north of Marlay Ave., and south of Shadow Dr. The development encompasses approximately 0.69 Acres. An overall vicinity map is provided (Attachment "B").

Average Dry and Peak Dry Weather Flows were provided by the city and Peak Wet Weather Flow was obtained using IEUA's Peaking Factor:

SUMMARY OF FLOW RATES UTILIZED

Fontana Regional Connection F-37: Average Dry Weather Flow (ADWF) Rate =0.0446 MGD
Peak Dry Weather Flow (PDWF) Rate = 0.1384 MGD (City Peaking)
Peak Wet Weather Flow (PWWF) Rate =0.1475 MGD

The hydraulic model was used to evaluate the Fontana Interceptor, to the Fontana Interceptor Relief Sewer, the Cucamonga Trunk, and 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.. The Fontana Interceptor has a depth to Diameter ratio (d/D) of 0.42 and flowrate of 3.61 MGD. The full capacity of this 33-inch line is 10.32 MGD. This leaves an available capacity of 6.71 MGD. The downstream Cucamonga Trunk Sewer has a depth to Diameter ratio (d/D) of 0.32 and will not be impacted by this tributary flow. Capacity to RP-1 is sufficient to meet the flows added by this development.

ATTACHMENT A

May 23, 2023, City of Fontana Regional Interceptor Request

FONTANA
CALIFORNIA

MAY 23, 2023

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

Subject: City of Fontana Regional Connection Request
11690 Overland Drive
Jurupa Avenue & Calabash

Dear Mr. Poeske,

On behalf of the applicant, Gonzales Family, 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 Marlay Avenue and Overland Drive (see attached vicinity map). There is currently no available Fontana maintained sewer that can feasibly be reached by this site. The Santa Ana Regional Water Board is not allowing for an increase of the existing septic at this site which is requiring this sewer lateral connection.

A sewer analysis was prepared and has been provided for your use by SERVITOP Engineering. The proposed sewer lateral connection is for an existing single-family residence consisting of the existing residence, first-floor addition, and ADU for a total of six bedrooms and five bathrooms. The analysis determined the sewer lateral would generate an average flow of 31 GPM and a peak flow of 96 GPM from 11690 Overland Drive. The property is proposing to channel the flows using a 4" PVC sewer lateral to a proposed 8" VCP sewer in Overland Dr. The 8" VCP would use a manhole to tie into the existing 33" VCP pipe at station 234+81.40 on IEUA DWG No. D4521-7. The connection at the 33" VCP pipe is made at the top of pipe in order to discourage surcharge from backing up through the 8" connection.

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

Travis Almgren
Assistant Engineer
talmgren@fontanaca.gov

Engineering Browser

SUMMARY TABLE

SITE ACERAGE =

-0.69 AC

APPROX BUILDING SQUARE FOOTAGE =

~5,000 SF

PROJECT SITE

MULBERRY AVE

OVERLAND DR

SHADOW DR

COUNTRYSIDE DR

PONDEROSA DR

PARKWOOD DR

OAKWOOD DR

RANCHERIAS DR

LEMONWOOD CT

DRIFTWOOD DR

MONTERRA AVE

MARLAY AVE

CALABASH AVE

RANCHERO DR

City of Fontana
Parcel

Address Point

Primary Point
Ancillary Point
Utility Point
Condo Point
Mobile Home
Street

FONTANA
CALIFORNIA

0 0.02 0.04 mi
Scale 1 : 2,257

N
W E
S

3/2/2023
City of Fontana

1420 E Cooley Drive, Suite 102, Colton, CA 92324
Phone (909) 733-6487
E-Mail: info@servitopcorp.com

SERVITOP
ENGINEERING

February 24, 2023
Proposed Sewer Lateral
Existing Single-Family Residence
11690 Overland Drive
Fontana, CA 92337
A.P.N: 0236-271-017

Prepared for:
Gonzales Family
11690 Overland Drive
Fontana, CA 92337

Prepared by:
Servitop Engineering
Jess C. Sotto, PE
R.C.E. 83381

1. Proposed Development

Existing Single-Family Residence- Project consisting of:

- Existing Single-family residence with new first-floor addition and converting existing garage to the living area, the project consists of six bedrooms, and five bathrooms, see Exhibits, Figures No. 2 and 3, located in the City of Fontana, San Bernardino County, California.
- Property Size: The parcel consists of 30,000 SF/0.69AC.
- Proposed Sewer Lateral: for the parcel to accommodate an Existing Single-family residence.

2.0 PROJECT ANALYSIS

The proposed on-site sanitary sewer will convey sewage from one stub-out location as shown on the prototypical plans. At this location, a Drainage Fixture Unit (DFU) value is given. The DFU value is then converted to Gallons per Minute (GPM) by using Chart A 103.1(1) from California Plumbing Code. This chart is included as an attachment. Below is a table summarizing the DFU to GPM conversions for the Project.

The liquid capacity shall comply with Table H 201.1(1) as determined by the number of bedrooms or apartment units in dwelling occupancies and the estimated waste/wastewater design flow rate or the amount of plumbing fixtures units as determined in Table 702.1 of California Plumbing code, whichever is greater in other building occupancies.

Table H 201.1 (1)

SINGLE-FAMILY DWELLINGS-NUMBER OF BEDROOMS	MULTIPLE DWELLING UNITS OR APARTMENTS - ONE BEDROOM EACH	OTHER USES: MAXIMUM FIXTURE UNITS SERVED PER	MINIMUM SEPTIC TANK CAPACITY (GALLONS)
1 or 2	-	15	750
3	-	20	1000
4	2 units	25	1200
5 o 6	3	33	1500
	4	45	2000
	5	55	2250
	6	60	2500
	7	70	2750
	8	80	3000
	9	90	3250
	10	100	3500

SANITARY DRAINAGE

TABLE 702.1
DRAINAGE FIXTURE UNIT VALUES (DFU)

PLUMBING APPLIANCES, APPURTENANCES, OR FIXTURES	MINIMUM SIZE TRAP AND TRAP ARM[7] (inches)	PRIVATE	PUBLIC	ASSEMBLY[8]
Bathtub or Combination Bath/Shower	1½	2.0	2.0	—
Bidet	1¼	1.0	—	—
Bidet	1½	2.0	—	—
Clothes Washer, domestic, standpipe[5]	2	3.0	3.0	3.0
Dental Unit, cuspidor	1¼	—	1.0	1.0
Dishwasher, domestic, with independent drain[2]	1½	2.0	2.0	2.0
Drinking Fountain or Water Cooler	1¼	0.5	0.5	1.0
Food Waste Grinder, commercial	2	—	3.0	3.0
Floor Drain, emergency	2	—	0.0	0.0
Floor Drain (for additional sizes see Section 702.0)	2	2.0	2.0	2.0
Shower, single-head trap	2	2.0	2.0	2.0
Multi-head, each additional	2	1.0	1.0	1.0
Lavatory, single	1¼	1.0	1.0	1.0
Lavatory, in sets of two or three	1½	2.0	2.0	2.0
Washfountain	1½	—	2.0	2.0
Washfountain	2	—	3.0	3.0
Mobile Home, trap[9]	3	12.0	—	—
Receptor, indirect waste[1,3]	1½	See footnote[1,3]		
Receptor, indirect waste[1,4]	2	See footnote[1,4]		
Receptor, indirect waste[1]	3	See footnote[1]		
Sinks	—	—	—	—
Bar	1½	1.0	—	—
Bar[2]	1½	—	2.0	2.0
Clinical	3	—	6.0	6.0
Commercial with food waste[2]	1½	—	3.0	3.0
Special Purpose[2]	1½	2.0	3.0	3.0
Special Purpose	2	3.0	4.0	4.0
Special Purpose	3	—	6.0	6.0
Kitchen, domestic[2] (with or without food waste grinder, dishwasher, or both)	1½	2.0	2.0	—
Laundry[2] (with or without discharge from a clothes washer)	1½	2.0	2.0	2.0
Service or Mop Basin	2	—	3.0	3.0
Service or Mop Basin	3	—	3.0	3.0
Service, flushing rim	3	—	6.0	6.0
Wash, each set of faucets	—	—	2.0	2.0
Urinal, integral trap 1.0 GPF[2]	2	2.0	2.0	5.0
Urinal, integral trap greater than 1.0 GPF	2	2.0	2.0	6.0
Urinal, exposed trap[2]	1½	2.0	2.0	5.0
Water Closet, 1.6 GPF Gravity Tank[6]	3	3.0	4.0	6.0
Water Closet, 1.6 GPF Flushometer Tank[6]	3	3.0	4.0	6.0
Water Closet, 1.6 GPF Flushometer Valve[6]	3	3.0	4.0	6.0
Water Closet, greater than 1.6 GPF Gravity Tank[6]	3	4.0	6.0	8.0
Water Closet, greater than 1.6 GPF Flushometer Valve[6]	3	4.0	6.0	8.0

For SI units: 1 inch = 25 mm

Notes:

1 Indirect waste receptors shall be sized based on the total drainage capacity of the fixtures that drain therein to, in accordance with Table 702.2(b).
2 Provide a 2 inch (50 mm) minimum drain.
3 For refrigerators, coffee urns, water stations, and similar low demands.
4 For commercial sinks, dishwashers, and similar moderate or heavy demands.
5 Buildings having a clothes-washing area with clothes washers in a battery of three or more clothes washers shall be rated at 6 fixture units each for purposes of sizing common horizontal and vertical drainage piping.
6 Water closets shall be computed as 6 fixture units where determining septic tank sizes based on Appendix H of this code.
7 Trap sizes shall not be increased to the point where the fixture discharge is capable of being inadequate to maintain their self-scouring properties.
8 Assembly [Public Use (see Table 422.1)].
9 ***[HCD 2]*** *For drainage fixture unit values related to mobilehome parks in all parts of the State of California, see California Code of Regulations, Title 25, Division 1, Chapter 2, Article 5, Section 1268. For drainage fixture unit values related to special occupancy parks in all parts of the State of California, see California Code of Regulations, Title 25, Division 1, Chapter 2.2, Article 5, Section 2268.*

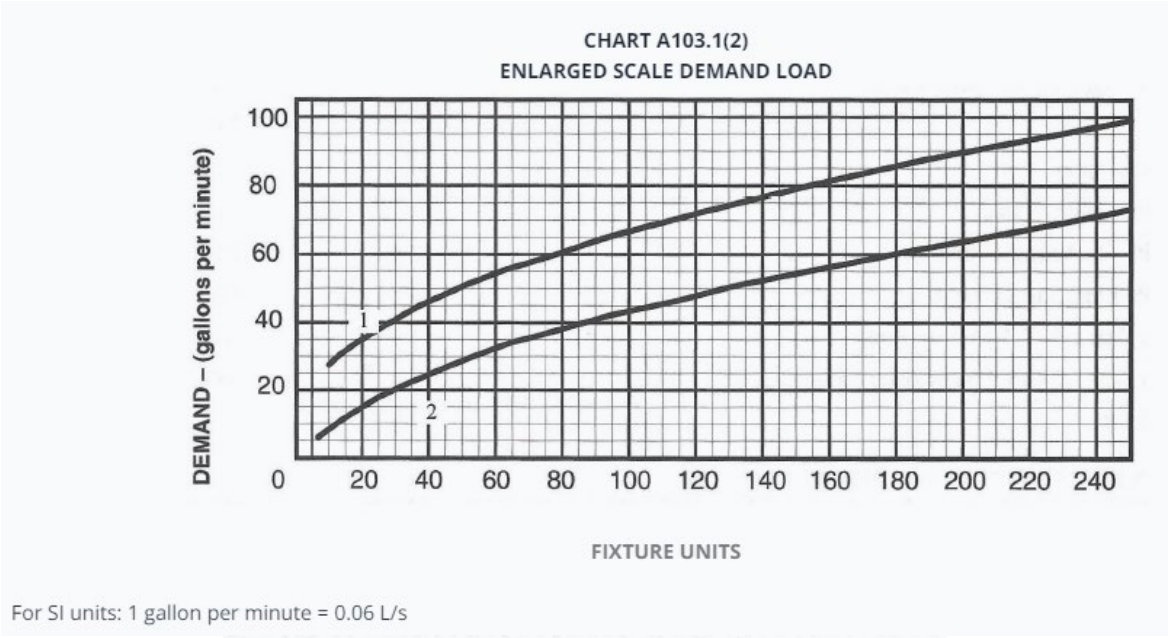
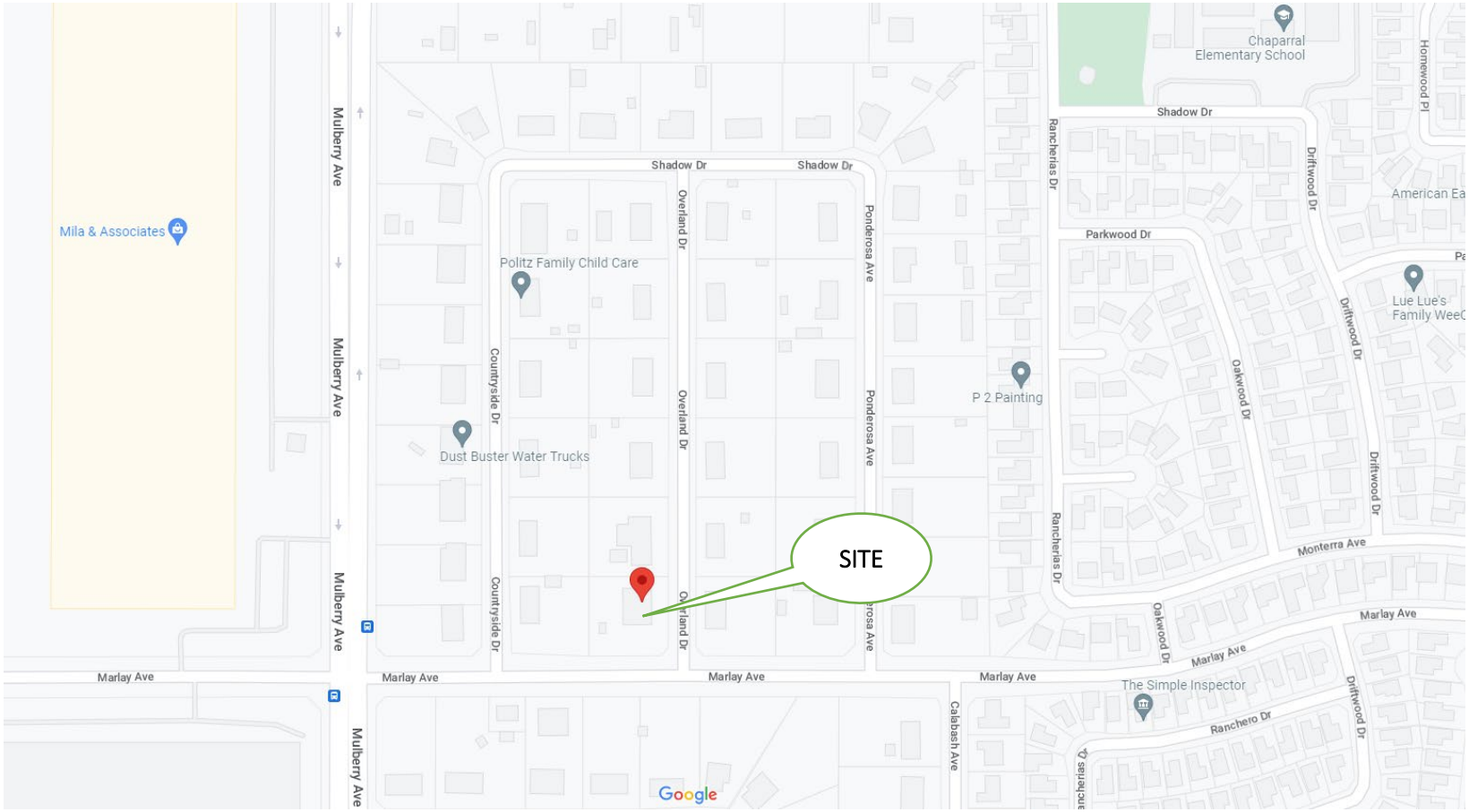


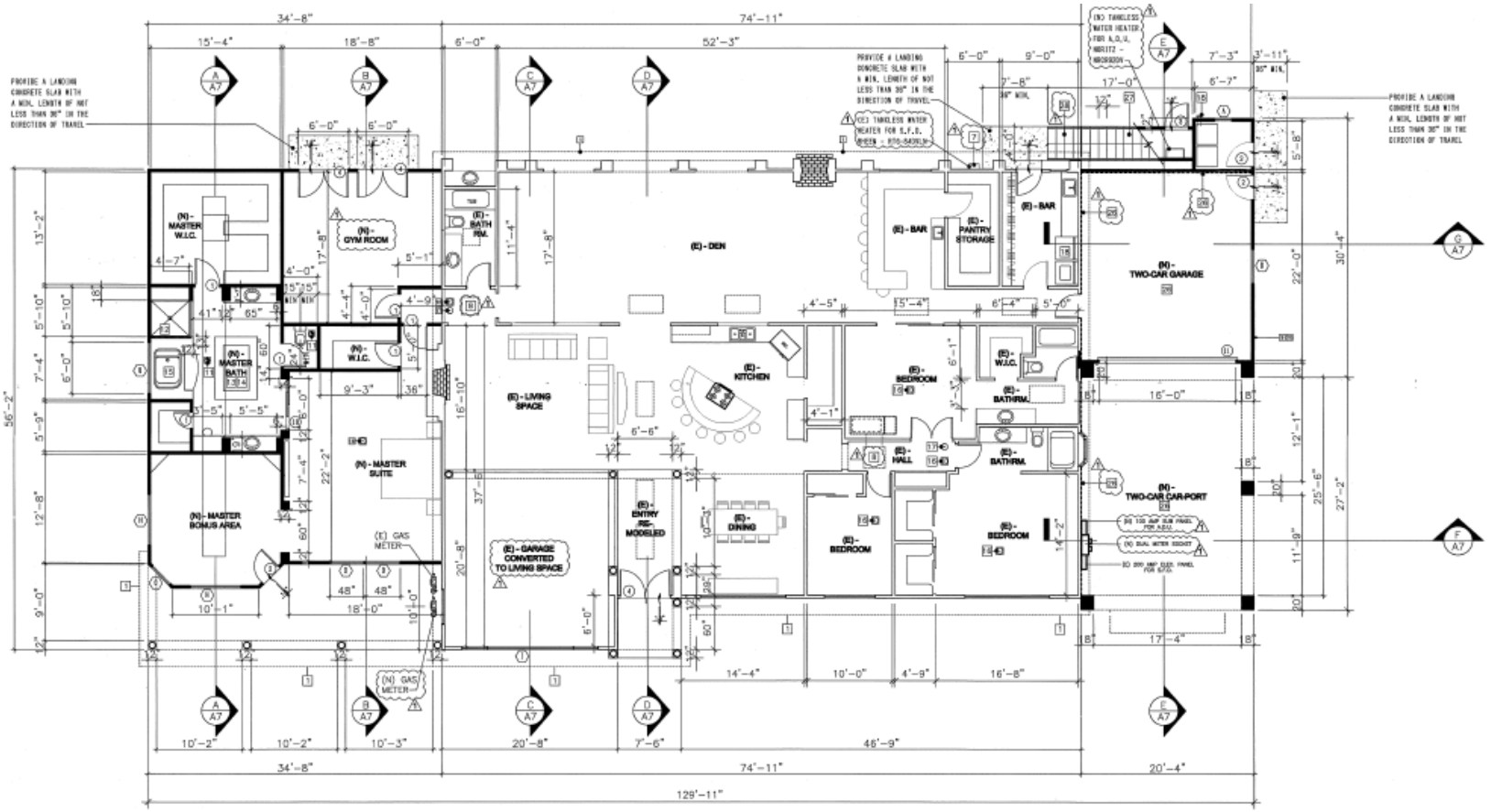
TABLE 1 SANITARY SEWER FLOW CALCULATION.

Contributing Unit Type	Drainage Fixture Unit (DFU)	Flow Duration (Hours)	Flow (GPM)	Peak Factor	Peak Flow (GPM)
Residential Dwelling	56	24	31	2.5	96.10

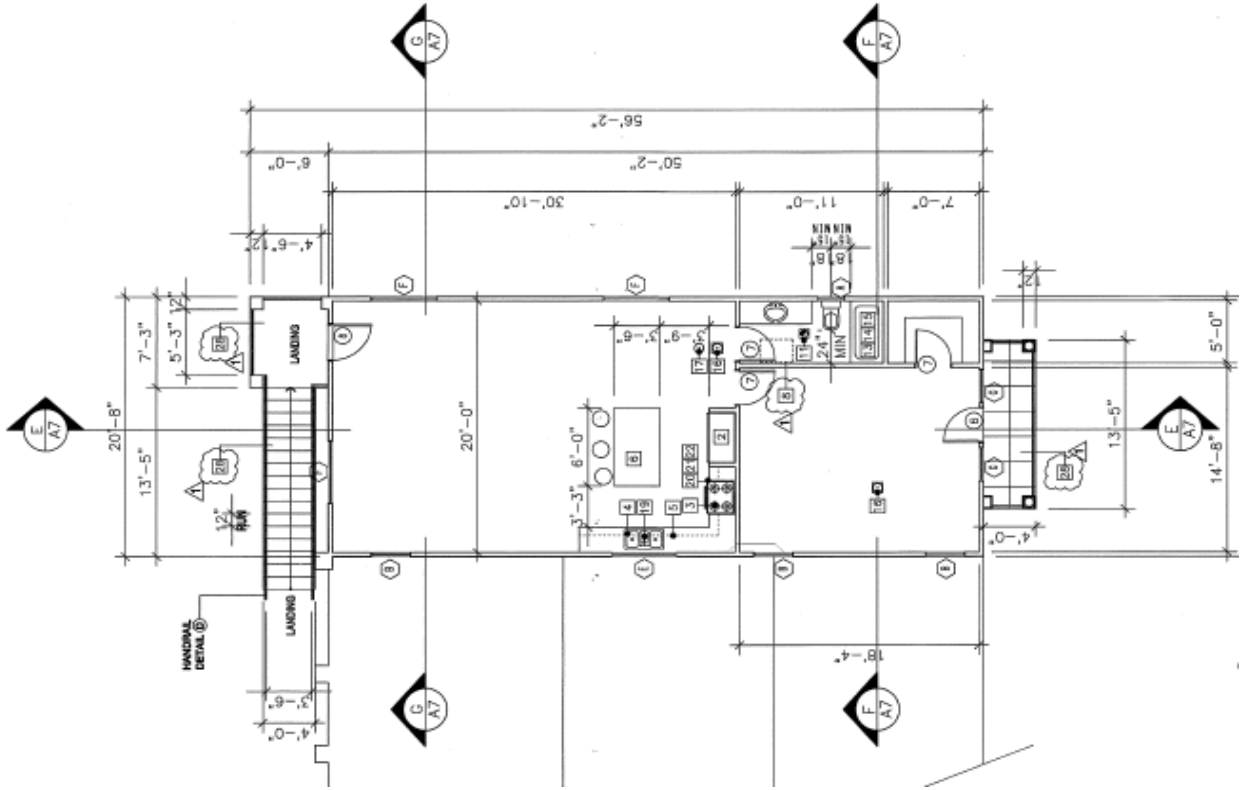
EXHIBITS



SERVITOP ENGINEERING	Coordinates 34°02’28.39” N 117°30'17.37"W Elev. 889 ft	VICINITY MAP. NEW SINGLE-FAMILY RESIDENCE 11690 Overland Drive FONTANA, CA 92337
		Figure No. 1 / Date: 2/24/2023



SERVITOP ENGINEERING	Coordinates 34°02'28.39" N 117°30'17.37"W Elev. 889 ft	**FLOOR PLAN** NEW SINGLE-FAMILY RESIDENCE 11690 Overland Drive FONTANA, CA 92337 Figure No. 2 — Date: 2/24/2023



SERVITOP ENGINEERING

Coordinates

34°02'28.39" N
117°30'17.37"W
Elev. 889 ft

FLOOR PLAN

NEW SINGLE-FAMILY RESIDENCE

11690 Overland Drive
FONTANA, CA 92337

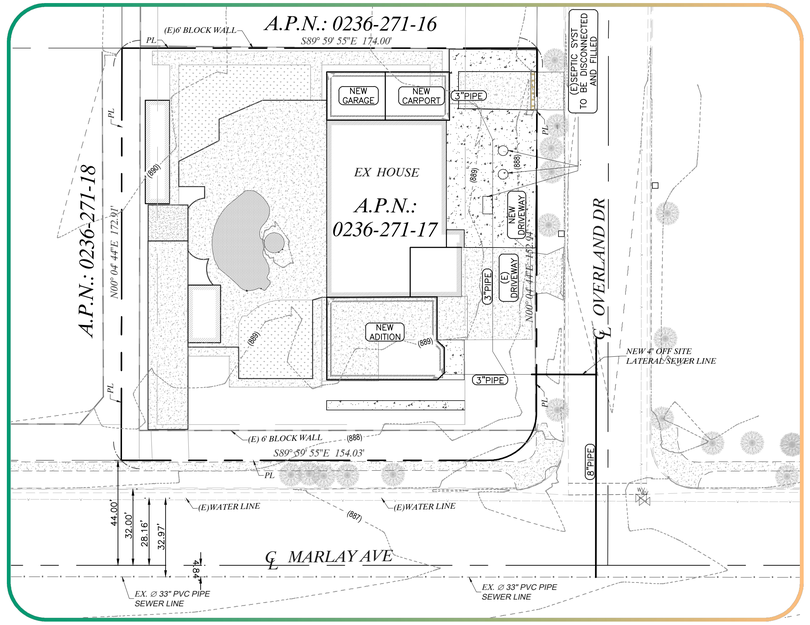
Figure No. 3

Date:
2/24/2023

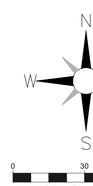
LATERAL SEWER PLAN
CITY OF FONTANA, CALIFORNIA
11690 OVERLAND DR, CA 92337
A.P.N: 0236-271-17

GENERAL NOTES FOR ALL IMPROVEMENT PLANS:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF FONTANA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, THESE PLANS, THE PROJECT SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) ALL REFERENCE SPECIFICATIONS AND STANDARDS SHALL BE THE LATEST 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 (GREENBOOK), THE CONTRACTOR SHALL IMMEDIATELY REPORT SAID CONFLICT TO THE CITY ENGINEER FOR RESOLUTION.
3. ALL MATERIALS AND METHODS PROPOSED FOR USE SHALL BE APPROVED BY THE CITY ENGINEER.
4. CONSTRUCTION PERMITS SHALL OBTAIN FROM THE CITY OF FONTANA COMMUNITY DEVELOPMENT, ENGINEERING DIVISION PRIOR TO THE START OF ANY WORK. INSPECTION COORDINATION SHALL BE REQUESTED AT LEAST TWO WORKING DAYS PRIOR TO THE START ANY WORK IN PUBLIC RIGHT-OF-WAY WITHIN THE CITY LIMITS. CALL(909) 350-7610.
5. THE CONTRACTOR SHALL CONFORM TO CALL ALL TRAFFIC CONTROL POLICIES, METHOD AND DESCRIBED IN THE STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS, LATEST NON-METRIC EDITION UNLESS OTHERWISE DIRECTED BY THE CITY TRAFFIC ENGINEER.
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 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 IN THE PUBLIC RIGHT OF WAY WHITEOUT OBTAINING A SEPARATE PERMIT FOR THAT PURPOSE.
10. THE LOCATIONS OF UTILITIES SHOWN HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION,HOWEVER, IT SHALL BE THE RESPONSIBILITY OF 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 DAY BEFORE EXCAVATION.
11. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WHIT ALL UTILITY COMPANIES INCLUDING, BUT NOT LIMITED TO, GAS, TELEPHONE, ELECTRIC, CABLE TELEVISION, LANDSCAPING,LANDSCAPE IRRIGATION,DOMESTIC WATER, RECLAIMED WATER, 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 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 RESPONSIBLE FOR THE PRESERVATION OF BENCHMARK AND CONSTRUCTION CONTROL STAKING DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL NOT DISTURB EXISTING SURVEY MONUMENTS TIES OR BENCHMARK WITHOUT PRIOR NOTIFICATION TO THE CITY ENGINEER.
16. REMOVAL AND REPLACEMENT OF EXISTING SURVEYCONTROL, INCLUDING SURVEY MONUMENTS, MONUMENTS TIES AND BENCH MARKS, SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSE LAND SURVEY. SURVEY MONUMENTS THAT WILL BE DESTROYED AS A RESULT OF THIS CONSTRUCTION SO THAT TIES TO MONUMENTS CAN BE ESTABLISHED FOR LATER REPLACEMENT OF THE MONUMENT.
17. THE CONTRACTOR SHALL 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 EFFECTIVE MEANS OF DUST CONTROL, INCLUDING ADEQUATE WATERING, AT ALL TIMES.
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 REDUIRE 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 IMPROVEMENTS.
23. ALL EXPOSED CONCRETE SURFACES SHALL CONFORM IN GRADE, COLOR AND FINISH TO MATCH EXISTING CONCRETE.
24. 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 FOR TERMINAL CLEANOUT.
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.
27. SHORT VCP STUBS WITH FLEXIBLE COMPRESSION JOINTS SHALL BE USED AT MANHOLE WALLS TO ALLOW FOR MINOR DEFLECTIONS IN ALIGNMENT.
28. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE EXISTING FACILITIES AND VERIFY ELEVATION AND LOCATION 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 EFFECTED AGENCIES IMMEDIATELY.
33. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED.
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.
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.



INDEX PLAN
SCALE: 1"=40'



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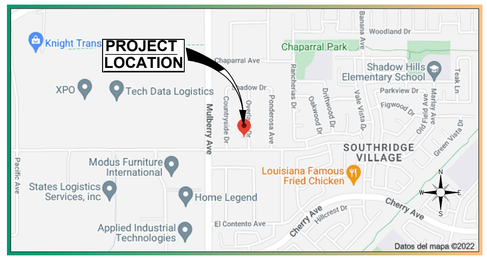


VICINITY MAP

OWNER / DEVELOPER

ELISEO GONZALEZ
11690 OVERLAND DR
FONTANA CA, 92337

SITE ADDRESS

11690 OVERLAND DR
FONTANA CA, 92337
APN: 0236-271-17

UTILITIES :

WATER: FONTANA WATER COMPANY
15966 ARROW BLVD,
FONTANA, CALIFORNIA 92335
P: (909) 822-2201 OFFICE
POWER: SOUTHERN CA. EDISON CO.
P: (800) 655-4555 OFFICE
TELEPHONE: AT&T
P: (800) 310-2355
INLAND EMPIRE UTILITIES AGENCY (I.E.U.A.)
6075 KIMBALL AVE.CHINO, CA
(P) 909-993-1723
(M) 909-573-6188

GAS: SOUTHER CA GAS COMPANY-RESIDENTIAL
P: (909) 335-7948 OFFICE
SEWER: SEWER SERVICE.
8353 SIERRA AVE.
FONTANA, CA 92335.
P: (909)350-6760
CABLE: TIME WARNER CABLE
P: (855) 707-7328

SOURCE OF TOPOGRAPHY

TOPOGRAPHIC SURVEY WAS PERFORMED ON DECEMBER 14 2022. USING ℄ MALAY AVE N89°59'55"E, TRACT 10522 LOT 38..

CONSTRUCTION NOTES

		QTY
①	CONSTRUCT 8" EXTRA STRENGTH VCP SS, BEDDING & BACKFILL PER CITY OF FONTANA STD. 2009 AND 1008.	100.0 LF
②	CONSTRUCT 48" SEWER MANHOLE PER CITY OF FONTANA STD. PLANS 2000, 2001, AND 2003.	1 EA
③	CONSTRUCT 72" SEWER MANHOLE DETAIL PER I.E.U.A. STD. C-MH-001 AND C-MH-004.	1 EA
④	CONSTRUCT 4" EXTRA STRENGTH VCP SS LATERAL PER S.P.P.W.C. STD. 222-2. AND CITY OF FONTANA STD. 2009, 1008.	25.0 LF
⑤	CONSTRUCT SEWER LATERAL CLEAN-OUT, PER CITY OF FONTANA STD. 2005.	1 EA
⑥	INSTALL TEMP. 8" END PLUG.	1 EA

ABBREVIATION

℄ .....CENTER LINE
FF.....FINISH FLOOR ELEVATION
FG.....FINISH GRADE
FL.....FLOW LINE ELEVATION
HP.....HIGH POINT ELEVATION
INV.....INVERT ELEVATIONS
MAX.....MAXIMUM
MIN.....MINIMUM
NG.....NATURAL GROUND
PE.....PAD ELEVATION
P℄ .....PROPERTY LINE
TCH.....TOP OF CHANNEL
TG.....TOP OF GRATE ELEVATION
S/W.....SIDEWALK
AC.....ASPHALT CONCRETE
C/B.....CATCH BASIN
CONC.....CONCRETE

LEGEND

PROPERTY LINE
CENTER LINE
99.55 EXISTING CONTOUR
EXISTING SEWER LINE
SAWCUT
NEW LATERAL SEWER LINE
EXISTING ASPHALT
EXISTING GROUND
EXISTING WATER VALVE
EXISTING HYDRANT

PRIVATE ENGINEER'S NOTE CONTRACTOR

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND REASONABILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURE SHOWN ON THESE DRAWINGS.

2. CONTRACTOR AGREES THAT HE/SHE 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 COUNTY OF SAN BERNARDINO, THE OWNER AND THE ENGINEER 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 OR THE ENGINEER.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF FONTANA IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

JESS C. SOTTO R.C.E. NO 83381 — 05/22/2023 DATE

INLAND EMPIRE UTILITY AGENCY 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 FONTANA AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND THE IEUA STANDARD DETAIL SHEET OF THIS PLAN SET (SHEET 3 OF 3) 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 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 FONTANA 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 FONTANA.
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.

LEGAL DESCRIPTION

LOT NUMBER: 38 DISTRICT: 08 CITY, MUNICIPALITY, TOWNSHIP: FONTANA TRACT NO: 10522 BRIEF DESCRIPTION: TRACT 10522 LOT 38.

UNAUTHORIZED CHANGES AND USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

WARNING

THE LOCATION AND ELEVATION OF EXISTING PIPELINES SHOWN ON THESE PLANS ARE APPROPRIATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION AND ELEVATION OF THE PIPELINES PRIOR TO ANY GRADING OR CONSTRUCTION NEAR EXISTING PIPELINES.

NOTE

UNDERGROUND SERVICE ALERT
48 HOURS PRIOR TO EXCAVATION
TELEPHONE NO. : 1-800-227-2600

INLAND EMPIRE UTILITIES AGENCY*
* A Municipal Water District

LOCATION: 6075 Kimball Avenue Chino,California 91708 Telephone (909) 993-1600
MAILING ADDRESS: Poss Office Box 9020 Chino Hills, California 91709

PROJECT NAME: 11690 Overland Dr. F-37
PROJECT NO: EN0000000173
REVIEWED BY: DATE — MATTHEW A. POESKE, IEUA SENIOR ENGINEER
DRAWING NO: D4781

SHEET INDEX:

BASIS OF BEARINGS

BASIS OF BEARING IS THE CENTERLINE OF MALAY AVENUE S89°59'55'E, TRACT. 10522 LOT 38.

BENCH MARK:

CITY OF FONTANA BENCHMARK NO. 579
Jurupa & Banana N/W Cor RR Spk in PP 897939

ELEVATION: 922.560

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

SERVITOP ENGINEERING
1420 E COOLEY DR, OFFICE 102
COLTON, CA 92324.
TEL: (909)733-6487
info@servitopcorp.com

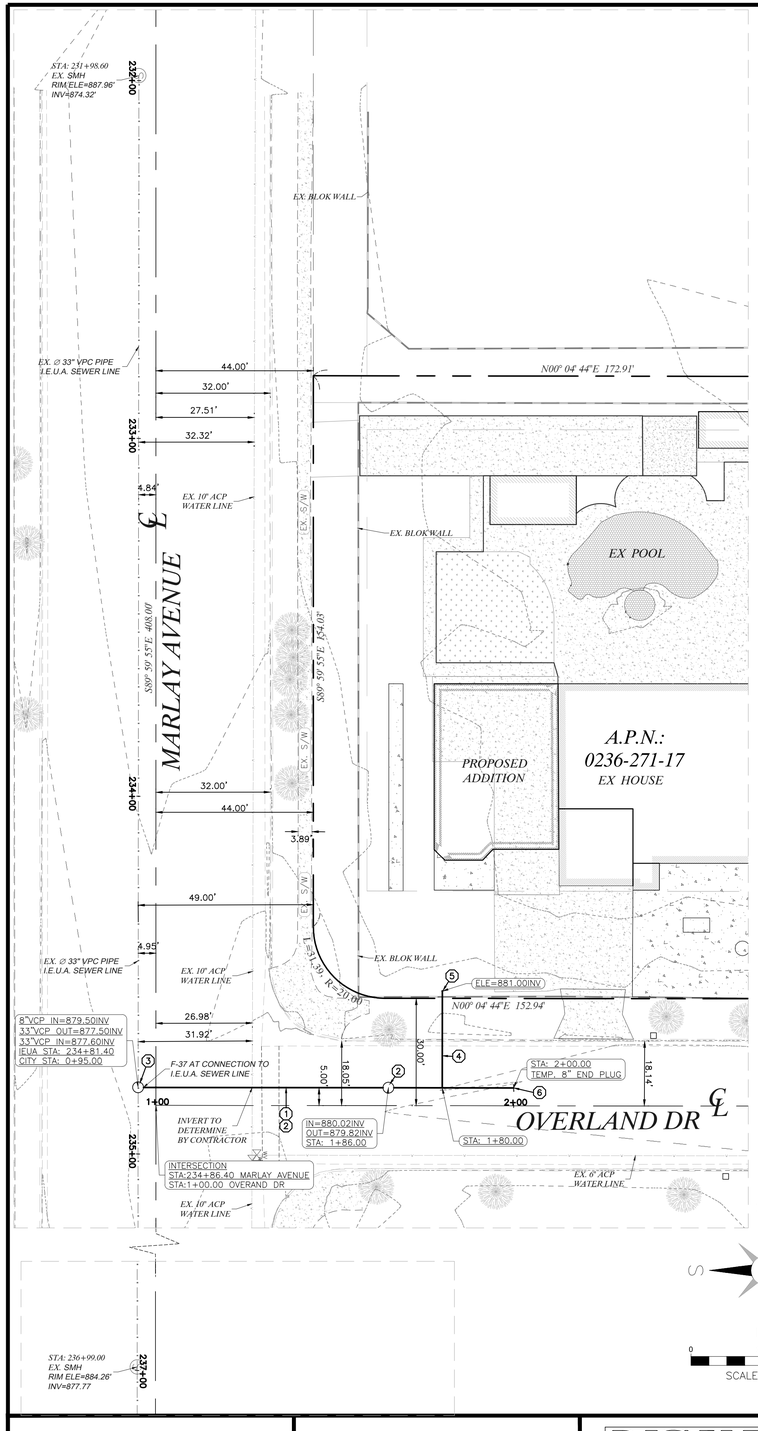
REGISTERED PROFESSIONAL ENGINEER — JESS C. SOTTO — No. 83381 Exp. 03-31-25 CIVIL — STATE OF CALIFORNIA

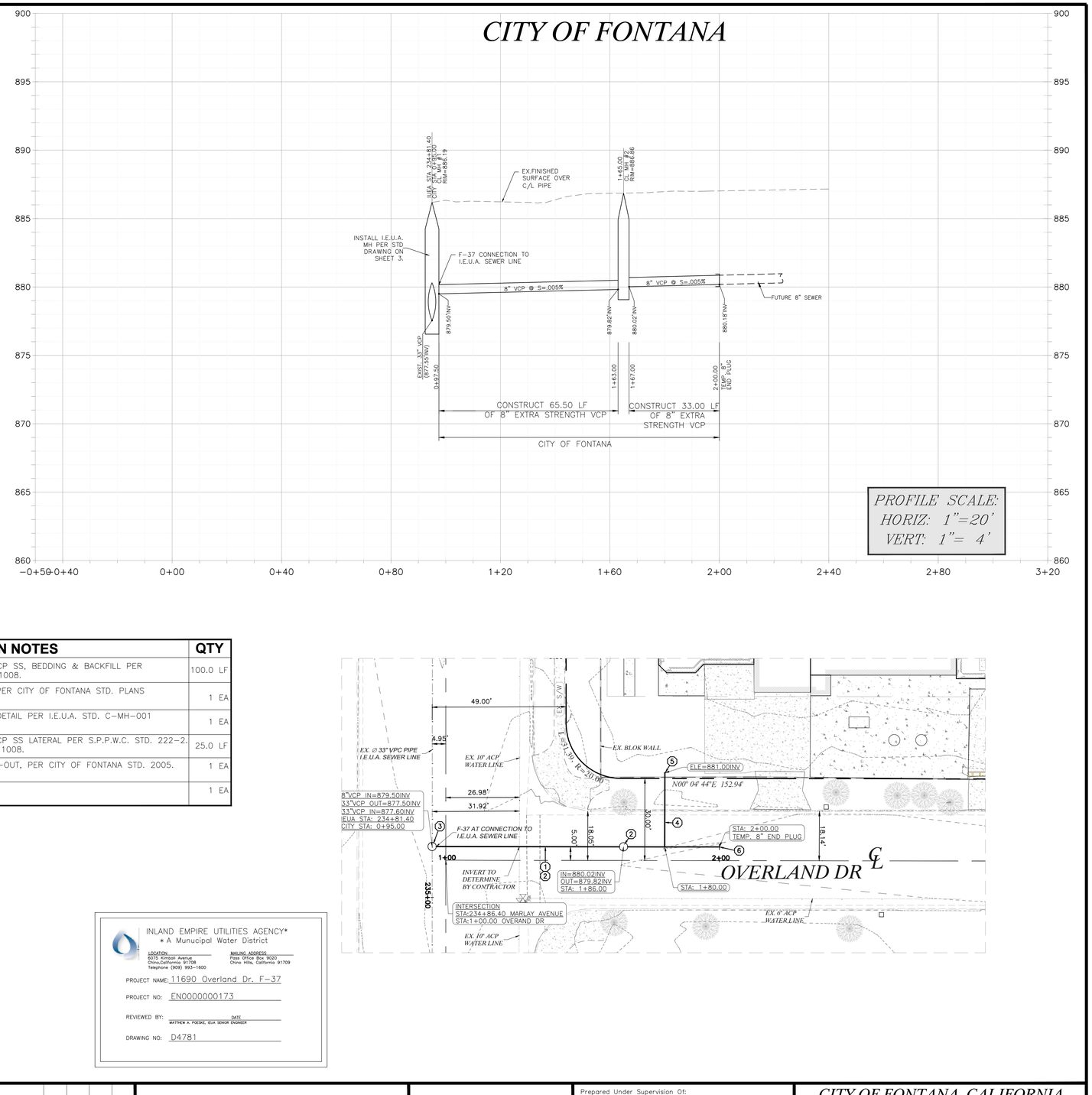
Prepared Under Supervision Of:

DATE: 05/22/2023
JESS C. SOTTO R.C.E. No. 83381

CITY OF FONTANA, CALIFORNIA
SEWER IMPROVEMENT

DRAWN BY: D.V.	SEWER IMPROVEMENT 11690 OVERLAND DR , FONTANA, CA 92337 A.P.N.: 0236-271-17	SCALE: AS SHOW
DESIGNED BY: D.V.		DATE:
CHECKED BY: J.C.	APPROVED BY: DATE: CITY ENGINEER R.C.E.:	DRAWING NO: 1 — 1/3





CONSTRUCTION NOTES		QTY
1	CONSTRUCT 8" EXTRA STRENGTH VCP SS, BEDDING & BACKFILL PER CITY OF FONTANA STD. 2009 AND 1008.	100.0 LF
2	CONSTRUCT 48" SEWER MANHOLE PER CITY OF FONTANA STD. PLANS 2000, 2001, AND 2003.	1 EA
3	CONSTRUCT 72" SEWER MANHOLE DETAIL PER I.E.U.A. STD. C-MH-001 AND C-MH-004.	1 EA
4	CONSTRUCT 4" EXTRA STRENGTH VCP SS LATERAL PER S.P.P.W.C. STD. 222-2. AND CITY OF FONTANA STD. 2009, 1008.	25.0 LF
5	CONSTRUCT SEWER LATERAL CLEAN-OUT, PER CITY OF FONTANA STD. 2005.	1 EA
6	INSTALL TEMP. 8" END PLUG.	1 EA

INLAND EMPIRE UTILITIES AGENCY*
* A Munucipal Water District

LOCATION
6075 Kimball Avenue
Chino,California 91708
Telephone (909) 993-1600

MAILING ADDRESS
Post Office Box 9020
Chino Hills, California 91709

PROJECT NAME: 11690 Overland Dr. F-37

PROJECT NO: EN0000000173

REVIEWED BY: _____ DATE
MATTHEW A. POESKE, IEUA SENIOR ENGINEER

DRAWING NO: D4781

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

SERVITOP ENGINEERING
1420 E COOLEY DR, OFFICE 102
COLTON, CA 92324.
TEL: (909)733-6487
info@servitopcorp.com

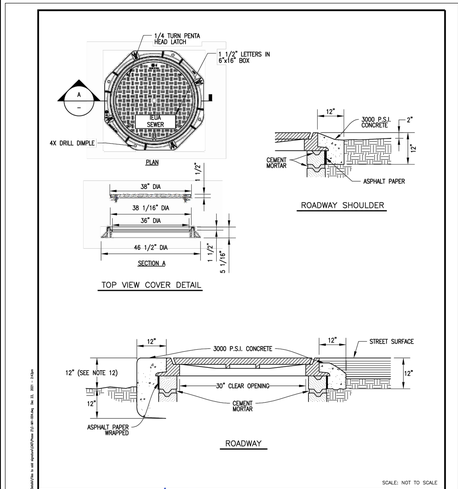
REGISTERED PROFESSIONAL ENGINEER
JESS C. SOTTO
No. 83381
Exp. 03-31-25
CIVIL
STATE OF CALIFORNIA

Prepared Under Supervision Of:

DATE: 05/22/2023
JESS C. SOTTO R.C.E. No. 83381

CITY OF FONTANA, CALIFORNIA
SEWER IMPROVEMENT

DRAWN BY: D.V.	SEWER IMPROVEMENT-PLAN AND PROFILE 11690 OVERLAND DR. FONTANA, CA 92337 A.P.N.: 0236-271-17	SCALE: AS SHOW
DESIGNED BY: D.V.		DATE:
CHECKED BY: J.C.	APPROVED BY: _____ DATE: _____ CITY ENGINEER R.C.E.:	DRAWING NO: 2 2/3



SCALE: NOT TO SCALE

APPROVED BY: CITY ENGINEER	DATE 12/23/2021	Inland Empire Utilities Agency
MANAGER OF ENGINEERING		MANHOLE FRAME AND COVER
REVISION		C-MH-004
NO. BY DATE APPROVED		SHEET 1 OF 2

KEYWORDS: SEWER, MANHOLE, FRAME, COVER

REGISTERED PROFESSIONAL ENGINEER JERRY BURKE No. C52114 CIVIL STATE OF CALIFORNIA

NOTES:

1. MANHOLE FRAME AND COVER SHALL BE EJ WATER-RESISTANT BLACK COMPOSITE WITH GASKET AND "EUA SEWER" CUSTOM CENTER INSERT.
2. MANHOLE FRAME AND COVER SHALL BE HEAVY DUTY TRAFFIC RATED, U.S. LOAD SPECIFICATION, MEETS H-25 TRAFFIC REQUIREMENTS.
3. (4) TITUS TWISTLIFT SECURITY LOCK SYSTEMS BOLT SHALL BE MACHINED FROM 17-4PH H900 HARDENED STAINLESS STEEL WITH TITUS 4-TWISTLIFT SECURITY LOCKS.
4. CONTRACTOR SHALL PROVIDE ONE (1) COMPOSITE COVER TWISTLIFT OPENING TOOL WITH LOCK SOCKET, 30" LONG AND POWDER COATED BLACK.
5. COVER SHALL BE FURNISHED WITH STAINLESS STEEL BOLTS WITH CAPTIVE WASHERS AND "T" STYLE GASKET. STAINLESS STEEL BOLTS WITH CAPTIVE WASHERS FROM INNESCO CO., AZUSA, CA (CAT. #BSAM4), "T" STYLE GASKET (R&O CO. #T6101) IS AVAILABLE FROM MAYDWELL & HARTZELL CO. LOS ANGELES, CA.
6. MANHOLE LID COLOR SHALL BE BLACK.
7. AREA AROUND PERIMETER ON BOTTOM SIDE OF COVER SHALL BE SMOOTH, FLAT, AND FREE OF ANY POCKETS OR IMPERFECTIONS.
8. 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 FLUSH WITH THE FRAME.
9. 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.
10. PRECAST SECTIONS SHALL BE ASSEMBLED SUCH THAT THE MANHOLE COVER IS FLUSH WITH THE PAVING SURFACE.
11. 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.
12. IF WITHIN A PLANTER, 12" DIMENSION CAN BE REDUCED TO 6".

SCALE: NOT TO SCALE

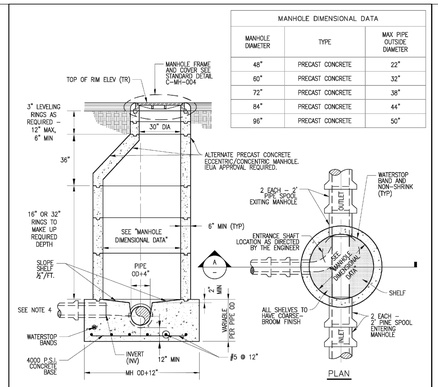
APPROVED BY: CITY ENGINEER	DATE 12/23/2021	Inland Empire Utilities Agency
MANAGER OF ENGINEERING		MANHOLE FRAME AND COVER
REVISION		C-MH-004
NO. BY DATE APPROVED		SHEET 2 OF 2

KEYWORDS: SEWER, MANHOLE, FRAME, COVER

REGISTERED PROFESSIONAL ENGINEER JERRY BURKE No. C52114 CIVIL STATE OF CALIFORNIA

MANHOLE DIMENSIONAL DATA

MANHOLE DIAMETER	TYPE	MAX PIPE OUTSIDE DIAMETER
48"	PRECAST CONCRETE	22"
60"	PRECAST CONCRETE	32"
72"	PRECAST CONCRETE	38"
84"	PRECAST CONCRETE	44"
96"	PRECAST CONCRETE	50"



NOTES:

1. PRECAST MANHOLE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO MINIMUM H-20 LOADING, OR AS DIRECTED BY IEUA.
2. MATERIALS, EMBEDMENT, PLACEMENT, AND COMPACTION OF GRANULAR EMBEDMENT AND COMPACTED BACKFILL WILL CONFORM TO THE AGENCY'S STANDARD SPECIFICATIONS FOR PIPE BEDDING AND TRENCH BACKFILL.
3. LINE INTERIOR SURFACES OF MANHOLE AND MANHOLE BASE WITH POLYURETHANE (RAVEN 405 OR APPROVED EQUAL). APPLY NON-SKID SURFACE ON EQUAL SHELF AREA PER MANUFACTURER RECOMMENDATION.
4. SOFFIT OF INCOMING PIPE SHALL MATCH OUTLET PIPE SOFFIT.
5. IEUA APPROVAL REQUIRED PRIOR TO CONNECTING AT MANHOLE.

SCALE: NOT TO SCALE

APPROVED BY: CITY ENGINEER	DATE 12/23/2021	Inland Empire Utilities Agency
MANAGER OF ENGINEERING		TYPICAL SEWER MANHOLE DETAIL
REVISION		C-MH-001
NO. BY DATE APPROVED		SHEET 1 OF 1

KEYWORDS: SEWER, MANHOLE

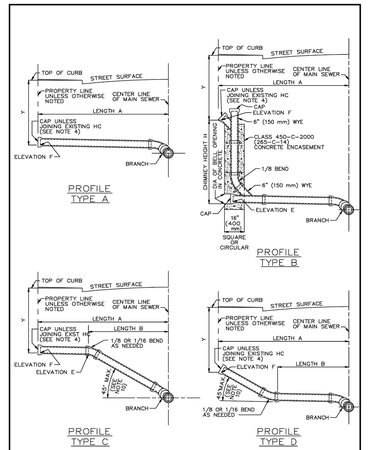
REGISTERED PROFESSIONAL ENGINEER JERRY BURKE No. C52114 CIVIL STATE OF CALIFORNIA

NOTES

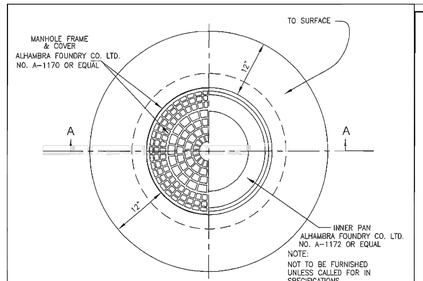
1. EXCEPT AS OTHERWISE INDICATED ON THE PLANS, ALL HOUSE CONNECTION SEWERS SHALL BE TYPE "A" AND SHALL BE CONSTRUCTED ON STRAIGHT LINES AND GRADES BETWEEN CONTROL POINTS AND ELEVATIONS.
2. DIMENSIONS:
   A. "Y" = 6" (1.85 m)
   B. LENGTHS "A" AND "B" – SEE PLANS
   C. LENGTH "H" – SEE PLANS
   D. ELEVATIONS "E" AND "F" – SEE PLANS
3. ALL HOUSE CONNECTION SEWER PIPE SHALL BE 150 mm (6") UNLESS OTHERWISE INDICATED AND MAY BE ANY OF THE FOLLOWING:
   A. VC PIPE
   B. PE PIPE
   C. ABS SOLID WALL PIPE
   D. ABS COMPOSITE PIPE
   E. PVC PLASTIC PIPE

   PROVIDED THAT CHANGES FROM ONE TYPE OF MATERIAL OR SIZE TO ANOTHER SHALL BE MADE ONLY BY MEANS OF SUITABLE ADAPTERS APPROVED BY THE ENGINEER.
4. THE UPPER END OF THE HOUSE CONNECTION SHALL BE SEALED BY INSTALLING A CAP AND SEALING THE CAP WITH 1" (25 mm) THICK TYPE "I" MORTAR AROUND THE CIRCUMFERENCE OF THE CAP.
5. EXCEPT AS CONTROLLED BY ELEVATIONS INDICATED ON THE PROJECT PLANS, THE MINIMUM SLOPE FOR ALL PIPE SHALL BE 2% (S=0.02 MINIMUM).
6. THE FIGURE IN A CIRCLE ON THE PLANS ADJACENT TO A HOUSE CONNECTION SEWER STATION INDICATES THE DEPTH IN FEET (METERS) BELOW THE EXISTING TOP OF CURB TO WHICH THE INVERT OF THE UPPER END OF THE HOUSE CONNECTION SEWER SHALL BE CONSTRUCTED. IF NO DEPTH IS INDICATED, THE INVERT OF THE UPPER END SHALL BE THE ELEVATION SHOWN ON THE PROFILE. WHERE BOTH DEPTH AND ELEVATION IS INDICATED, THE INVERT SHALL BE 6" (1.85 m) BELOW THE TOP OF THE EXISTING CURB.
7. BRANCHES SHALL BE EITHER TEES OR WYES AND SHALL BE ROTATED UPWARD FROM THE HORIZONTAL TO AN ANGLE OF 22-1/2° TO 45° WHEN TEES ARE USED. BENDS ARE NOT REQUIRED BUT MAY BE USED AT THE OPTION OF THE CONTRACTOR. WHEN THE BRANCH ROTATION DOES NOT CONFORM TO THE SLOPE OF THE HOUSE CONNECTION SEWER, PULLED JOINTS MAY BE USED FOR ADJUSTMENT.
8. THE MAXIMUM DEFLECTION AT EACH JOINT FOR 4" (100 mm) AND 6" (150 mm) VITRIFIED CLAY PIPE HOUSE CONNECTION SEWERS SHALL BE 4°, WHICH IS EQUAL TO A PULL OF 9/16" (14 mm) FOR A 6" (150 mm) PIPE AND 3/8" (10 mm) FOR A 4" (100 mm) PIPE. (PULL IS DEFINED AS THE SEPARATION OF THE ABUTTING PIPE ENDS ON THE CONVEX SIDE OF THE CURVE, MEASURED AT THE OUTSIDE PIPE BARREL.)
9. CONNECTION OF A BUILDING SEWER SMALLER THAN 6" (150 mm) TO A 6" (150 mm) HOUSE CONNECTION SEWER SHALL BE MADE USING AN APPROVED INCREASER TEE OR AN INCREASER FOLLOWED BY A TEE.
10. ALL HOUSE CONNECTION SEWERS OR PORTIONS THEREOF CONSTRUCTED ON A SLOPE EXCEEDING 45° SHALL BE ANCHORED PER SPPWC 221.
11. HOUSE CONNECTION SEWERS CONSTRUCTED PURSUANT TO A HOUSE CONNECTION PERMIT SHALL CONFORM TO ALL APPLICABLE STATUTES AND ORDINANCES.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
HOUSE CONNECTION SEWER	222–2
	SHEET 2 OF 2



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. ORENDMON COMMITTEE	HOUSE CONNECTION SEWER	STANDARD PLAN
REV. TEAM, 2006	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2



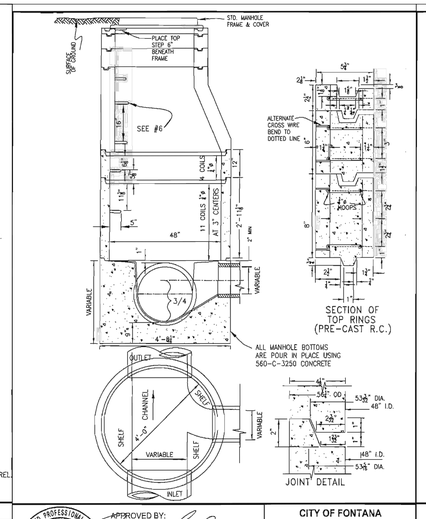
NOTES:

A SAME AS EXISTING – 1" MIN.

B NO MORE THAN 12" OF GRADE RINGS ALLOWED FOR A MAXIMUM OF 18" FROM TOP OF MANHOLE BARREL. CONCRETE SHALL BE PLACED FROM 2" BELOW GRADE RING TO 2" BELOW MANHOLE BARREL AND SHALL ENCAPSULATE ALL GRADE RINGS.

APPROVED BY: CITY ENGINEER	DATE 10-18-06	CITY OF FONTANA
RICARDO SANDOVAL		STD. MANHOLE FRAME & COVER AND REINFORCED CONCRETE COLLAR
REVIEWED BY: DG		
REVISION NUMBER:		STD. PLAN NO. 2000 SHT 1 OF 1

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 EXP. 9/30/07 CIVIL STATE OF CALIFORNIA



APPROVED BY: CITY ENGINEER	DATE 12/23/2021	CITY OF FONTANA
RICARDO SANDOVAL		STANDARD CAST IN PLACE MANHOLE FOR SEWER
REVIEWED BY: DG		
DATE OF LAST REVISION: 12/03/07		STD. PLAN NO. 2001 SHT 1 OF 2

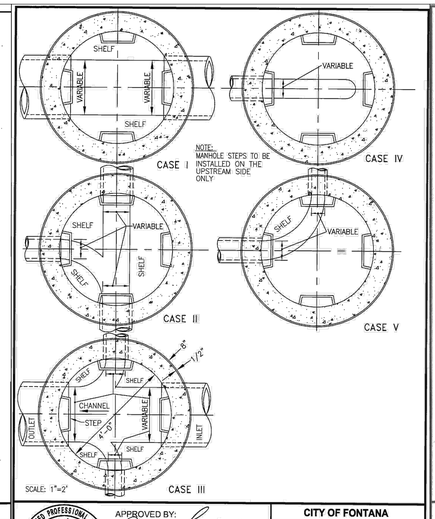
REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 EXP. 9/30/09 CIVIL STATE OF CALIFORNIA

NOTES:

1. SEE STANDARD DETAILS NOS. 2002 & 2003 FOR DROP & TYPICAL SEWER MANHOLE BASES DETAILS.
2. ECCENTRIC CONE MAY BE USED IN LIEU OF CONCENTRIC CONES.
3. THE LOWEST MANHOLE STEP SHALL BE PLACED NOT LESS THAN 16", NOT MORE THAN 24" ABOVE SHELF.
4. THE UPPER MANHOLE STEP SHALL BE PLACED BETWEEN THE TOP OF THE MANHOLE AND THE MANHOLE COVER FRAME AND SHALL PROJECT NOT MORE THAN 3" INSIDE MANHOLE.
4. ALL JOINTS SHALL BE MORTARED.
5. 3/4" DIAMETER GALVANIZED IRON STEP OR PLASTIC STEPS PER ASTM A-82, ASTM C-478, ASTM TYPE II GRADE 43758.

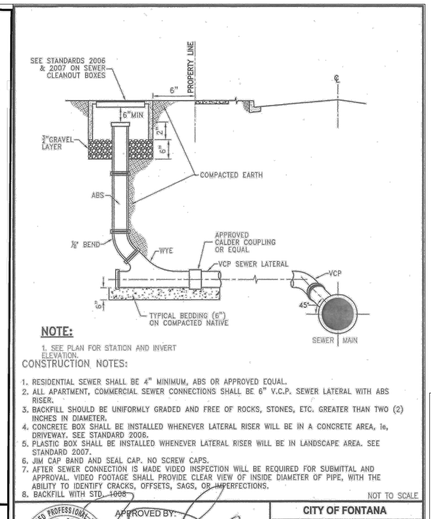
APPROVED BY: CITY ENGINEER	DATE 12-18-08	CITY OF FONTANA
RICARDO SANDOVAL		STANDARD CAST IN PLACE MANHOLE FOR SEWER
REVIEWED BY: DG		
DATE OF LAST REVISION: 12/03/07		STD. PLAN NO. 2001 SHT 2 OF 2

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 EXP. 9/30/09 CIVIL STATE OF CALIFORNIA



APPROVED BY: CITY ENGINEER	DATE 05-12-16	CITY OF FONTANA
RICARDO SANDOVAL		TYPICAL SEWER MANHOLE BASES
REVIEWED BY: JK		
REVISION NUMBER: 05/12/16		STD. PLAN NO. 2003 SHT 1 OF 1

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA



NOTE:

1. SEE PLAN FOR STATION AND INVERT ELEVATION.

CONSTRUCTION NOTES:

1. RESIDENTIAL SEWER SHALL BE 4" MINIMUM, ABS OR APPROVED EQUAL.
2. ALL APARTMENT, COMMERCIAL SEWER CONNECTIONS SHALL BE 6" V.C.P. SEWER LATERAL WITH ABS RISER.
3. BACKFILL SHOULD BE UNIFORMLY GRADED AND FREE OF ROCKS, STONES, ETC. GREATER THAN TWO (2) INCHES IN DIAMETER.
4. CONCRETE BOX SHALL BE INSTALLED WHENEVER LATERAL RISER WILL BE IN A CONCRETE AREA, ie, DRIVEWAY. SEE STANDARD 2006.
5. PLASTIC BOX SHALL BE INSTALLED WHENEVER LATERAL RISER WILL BE IN LANDSCAPE AREA. SEE STANDARD 2007.
6. JIM CAP BAND AND SEAL CAP. NO SCREW CAPS.
7. AFTER SEWER CONNECTION IS MADE VIDEO INSPECTION WILL BE REQUIRED FOR SUBMITTAL AND APPROVAL. VIDEO FOOTAGE SHALL PROVIDE CLEAR VIEW OF INSIDE DIAMETER OF PIPE, WITH THE ABILITY TO IDENTIFY CRACKS, OFFSETS, SAGS, OR IMPERFECTIONS.
8. BACKFILL WITH STD. 1006.

NOT TO SCALE

APPROVED BY: CITY ENGINEER	DATE 12-12-14	CITY OF FONTANA
RICARDO SANDOVAL		SEWER LATERAL CLEANOUT
REVIEWED BY: J.W.		
REVISION NUMBER: 2		STD. PLAN NO. 2005 SHT 1 OF 1

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

INLAND EMPIRE UTILITIES AGENCY*
* A Municipal Water District

LOCATION: 6075 Kimball Avenue, Chino,California 91708, Telephone (909) 993-1600

MAILING ADDRESS: Poss Office Box 9020, Chino Hills, California 91709

PROJECT NAME: 11690 Overland Dr. F-37

PROJECT NO: EN0000000173

REVIEWED BY: MATTHEW A. POESKE, IEUA SENIOR ENGINEER DATE

DRAWING NO: D4781

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

SERVITOP ENGINEERING

1420 E COOLEY DR, OFFICE 102
COLTON, CA 92324
TEL: (909)733-6487
info@servitopcorp.com

REGISTERED PROFESSIONAL ENGINEER JESS C. SOTTO No. 83381 Exp. 03-31-25 CIVIL STATE OF CALIFORNIA

Prepared Under Supervision Of:

DATE: 05/22/2023

JESS C. SOTTO R.C.E. No. 83381

CITY OF FONTANA, CALIFORNIA

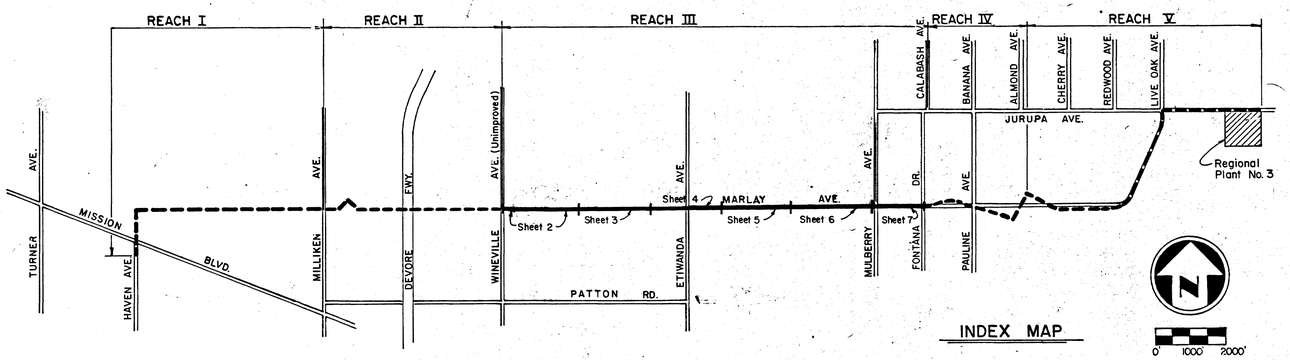
SEWER IMPROVEMENT

DRAWN BY: D.V.	STANDARDS DETAILS 11690 OVERLAND DR, FONTANA, CA 92337 A.P.N.: 0236-271-17	SCALE: AS SHOW
DESIGNED BY: D.V.		DATE:
CHECKED BY: J.C.	APPROVED BY: CITY ENGINEER R.C.E.: DATE:	DRAWING NO: 3/3

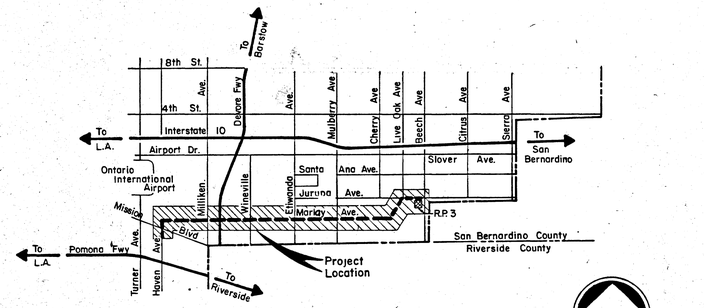
CHINO BASIN MUNICIPAL WATER DISTRICT

FONTANA INTERCEPTOR SEWER

REACH III



INDEX MAP



VICINITY MAP

0 1 2 (miles)

GENERAL NOTES

1) ALL SEWER MANHOLE STUBS SHALL BE SEALED BY A CAP OR STOPPER OF THE SAME MATERIAL AS THE PIPE. THE STOPPER OR CAP SHALL BE INSTALLED IN A MANNER SUCH THAT IT MAY BE REMOVED WITHOUT DAMAGING THE PIPE. THE CAP SHALL MAINTAIN A WATERTIGHT SEAL.

2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESETTING OF ANY SURVEY MONUMENTS, STREET CENTERLINE MONUMENTS, OR BENCH MARKS WHICH ARE ~~DISTRIBUTED~~ DISTURBED DURING CONSTRUCTION WHETHER THEY ARE SHOWN ON THE PLANS OR NOT. (2)

3) VITRIFIED CLAY PIPE BEDDING SHOWN ON THE PLAN AND PROFILE SHEETS IS BASED UPON A CASE 1 OR 2 TRENCH AS DEFINED ON DRAWING NO. D-4521-10 FOR A MAXIMUM TRENCH WIDTH AT THE TOP OF PIPE AS SHOWN ON THE PLAN AND PROFILE SHEETS. IF THE CONTRACTOR WILL BE CONSTRUCTING A TRENCH OF A WIDTH GREATER THAN THE DIMENSIONS SHOWN ON THE PLAN AND PROFILE SHEETS THE BEDDING TABLES SHOWN ON DRAWING NO. D-4521-10 SHALL SUPERCEDE THE REQUIREMENTS SHOWN ON THE PLAN AND PROFILE SHEETS. THE CONTRACTOR WILL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION RESULTING FROM THE USE OF TRENCH WIDTHS GREATER THAN THOSE SHOWN ON THE THE PLAN AND PROFILE SHEETS. REINFORCED CONCRETE PIPE BEDDING SHALL BE CLASS "C" AS SHOWN ON DRAWING NO. D-4521-11 AND MAY BE USED FOR ANY AND ALL TRENCH WIDTHS.

4) ALL MANHOLES AND STRUCTURES DESIGNATED ON THE PROFILE SHEETS SHALL BE GIVEN A SPRAYED ON POLYURETHANE PROTECTIVE COATING IN ACCORDANCE WITH DIVISION 14 OF THE SPECIFICATIONS.

5) ALL UNDERGROUND MAINLINE UTILITIES WITHIN THE ALLOWABLE WORKING AREA FOR THE PROJECT ARE SHOWN ON THE PLAN AND PROFILE SHEETS. THESE LOCATIONS ARE BASED UPON REFERENCE DRAWINGS SUPPLIED BY THE OWNER OF THE UTILITIES.

6) SOIL EXPLORATORY BORINGS ALONG THE PROJECT ALIGNMENT ARE DESCRIBED IN A SOILS ENGINEERING REPORT BY RICHARD MILLS ASSOCIATES INC. DATED MAY 6, 1982, WHICH IS AVAILABLE FOR REVIEW AT THE DISTRICT OFFICE. LOCATION OF THE BORINGS ARE SHOWN ON THE PLAN AND PROFILE DRAWINGS. SOILS REPORT WAS AMENDED ON 11/23/82.

7) ALL WORK SHALL BE DONE IN CONFORMANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE STATE OF CALIFORNIA, DEPT. OF INDUSTRIAL SAFETY (CAL-OSHA) REGULATIONS.

8) 48-HOURS PRIOR TO EXCAVATION NEAR THEIR FACILITIES, NOTIFY:

CITY OF ONTARIO
303 EAST "B" STREET
ONTARIO, CALIFORNIA 91764
TELEPHONE (714) 986-1151

CITY OF FONTANA
8353 SIERRA AVENUE
FONTANA, CALIFORNIA 92335
TELEPHONE (714) 350-7600

SO.CALIF.GAS COMPANY-DISTRIBUTION FACILITIES
570 4TH STREET, P.O. BOX 6226
SAN BERNARDINO, CALIFORNIA 92408
TELEPHONE (714) 884-9411 or (800) 422-4133

SO.CALIF.GAS COMPANY-TRANSMISSION DEPARTMENT
2191 BIRCH STREET
BREA, CALIFORNIA 92621
TELEPHONE (714) 529-2889 or (800) 422-4133

SOUTHERN CALIFORNIA EDISON COMPANY
1351 E. FRANCIS AVENUE, P.O. BOX 513
ONTARIO, CALIFORNIA 91761
TELEPHONE (714) 947-2996-UNDERGROUND POWER
(714) 875-5100-TRANSMISSION
(213) 637-1233-PIPELINES, OR
(800) 422-4133

GENERAL TELEPHONE COMPANY
245 N. MOUNTAIN VIEW AVENUE
POMONA, CALIFORNIA 91766
TELEPHONE (213) 357-2257 or (800) 422-4133

STATE OF CALIF.-DEPT. OF TRANS.-DISTRICT 8
247 WEST THIRD STREET, P.O. BOX 231
SAN BERNARDINO, CALIFORNIA 92403
TELEPHONE (714) 383-4561

SAN BERN. COUNTY FLOOD CONTROL DISTRICT
825 EAST THIRD STREET
SAN BERNARDINO, CALIFORNIA 92408
TELEPHONE (714) 383-1665

SOUTHERN PACIFIC TRANSPORATION COMPANY
610 SOUTH MAIN STREET
LOS ANGELES, CALIFORNIA 90014
TELEPHONE (213) 629-6562

PACIFIC TELEPHONE & TELEGRAPH COMPANY
3073 ADAMS STREET
RIVERSIDE, CALIFORNIA 92504
TELEPHONE (714) 359-2585 or (800) 422-4133

UNION PACIFIC RAILROAD
9500 E. FERGUSON DRIVE
LOS ANGELES, CALIFORNIA 90022
TELEPHONE (213) 725-2319

FONTANA WATER COMPANY
P.O. BOX 987
FONTANA, CALIFORNIA 92335
TELEPHONE (714) 822-2201

ABBREVIATIONS

A.A.S.H.T.O.....AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
A.C.P.....ASBESTOS CEMENT PIPE
A.S.T.M.....AMERICAN SOCIETY FOR TESTING MATERIALS
AVE.....AVENUE
BLVD.....BOULEVARD
B.M.....BENCH MARK
CAL.TRANS.....STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
C.B.M.W.D.....CHINO BASIN MUNICIPAL WATER DISTRICT
℄.....CENTERLINE
C.L.F.....CHAIN LINK FENCE
C.M.P.....CORRUGATED METAL PIPE
D.I.P.....DUCTILE IRON PIPE
EL.....ELEVATION
E/O.....EAST OF
FL.....FLOW LINE
F.S.....FINISHED SURFACE
G.T.E.....GENERAL TELEPHONE COMPANY
I.E.....INVERT ELEVATION
MAX.....MAXIMUM
M.H.....MANHOLE
MIN.....MINIMUM
N/O.....NORTH OF
N.I.C.....NOT IN CONTRACT
N.R.W.....NON-RECLAIMABLE WASTE
PAC.TEL.....PACIFIC TELEPHONE COMPANY
P.C.C.....PORTLAND CEMENT CONCRETE
PERM.....PERMANENT
P.L.M.P.....PLASTIC MORTAR PIPE
P.P.....POWER POLE
P.V.C.....POLYVINYL CHLORIDE
R.C.....REINFORCED CONCRETE
R.C.P.....REINFORCED CONCRETE PIPE
R/W.....RIGHT-OF-WAY
R.P.M.....REINFORCED PLASTIC MORTAR PIPE
S.....SLOPE
S/O.....SOUTH OF
S.B.C.F.C.D.....SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
S.B.CO.....SAN BERNARDINO COUNTY
S.C.E.....SOUTHERN CALIFORNIA EDISON COMPANY
S.C.G.CO.....SOUTHERN CALIFORNIA GAS COMPANY
S.P.R.R.....SOUTHERN PACIFIC RAILROAD
ST.....STREET
T.B.M.....TEMPORARY BENCH MARK
T.C.....TOP OF CURB
TEMP.....TEMPORARY
TISR6W-SBB&M.....TOWNHIP ONE SOUTH RANGE SIX WEST-SAN BERNARDINO BASE & MERIDIAN
U.B.C.....UNIFORM BUILDING CODE
U.P.R.R.....UNION PACIFIC RAILROAD
V.C.P.....VITRIFIED CLAY PIPE
W.S.P.....CEMENT MORTAR WRAPPED STEEL PIPE
W/O.....WEST OF
I.W.....WIDTH OF TRENCH AT TOP OF PIPE (A)

LEGEND

EXISTING OR FUTURE		TO BE CONSTRUCTED	
A.C. Pavement		Sewer	
P.C.C. Pavement		Manhole	
Curb		Vault	
P.C.C. Curb and Gutter		Jacked Casing	
Sanitary Sewer	—S—	R.C. Encasement	
NRW Sewer	—NRW—	Contour	870
Sewer Manhole			
Storm Drain	—SD—		
Water Main	—W—		
Water Valve			
Fire Hydrant	F.H.		
Irrigation Line	—I—		
Telephone Line (below grade)	—T—		
Telephone Pole	T.P.		
Electrical Line (below grade)	—E—		
Power Pole	P.P.		
Street Light			
Gas Main	—G—		
Gas Valve			
Fuel Oil Line	—F—		
Structure			
Contour	(870)		
Elevation	(870.2)		
Flow Line	℄ (870.2)		
Fence	—X—X—		
Tree			
Shrubbery			
Vineyard			
Soil Boring			
Bench Mark			
Survey Monument			
INDENTIFICATION MARKER FOR EDISON R/W	(A)		

"RECORD DRAWING"

DRAWING INDEX

DESIGN CRITERIA - PIPELINE

MANNING N = 0.013

FULL PIPE AT PEAK FLOW (EPA CRITERIA)

PEAK FLOW MISSION TO MILLIKEN - 15.4 MGD

PEAK FLOW MILLIKEN TO FUTURE VINTAGE - 13.5 MGD

PEAK FLOW FUTURE VINTAGE TO REGIONAL PLANT #3 - 10.2 MGD

V.C.P. BEDDING BASED ON DEAD LOAD CALCULATED BY MARSTON FORMULA USING SOIL WEIGHT PER SOILS REPORT. LIVE LOAD USING AASHTO HS-20-44 TRUCK LOADING. LOAD FACTORS ON DRAWING NO. D-4523-~~11~~ 10 (2)

V.C.P. ASTM C-700 STRENGTH

R.C.P. D-LOAD BASED UPON DEAD LOAD CALCULATED USING POSITIVE PROJECTION CONDITIONS USING CLASS "C" BEDDING SHOWN ON D-4523-~~11~~ 11 LIVE LOAD USING AASHTO HS-20-44 TRUCK LOADING. (2)

R.C.P. ASTM C-76 WALL "C"

SIPHON 15 INCH BARREL ONLY-PDF 0.0 MGD TO 4.6 MGD
18 INCH BARREL ONLY-PDF 4.6 MGD TO 7.4 MGD
15 & 18 INCH BARREL-PDF 7.4 MGD TO 10.2 MGD

(1)

REV.	DATE	BY	DESCRIPTION
(4)	11-1-84	L&A.	"AS CONSTRUCTED" INFO. ADDED.
(3)	1-19-83	L&A.	ADDENDUM #1
(1)	10-18-83	GW	Misc.

SUBMITTED Robert B. Gallinger, Project Engineer, C-35487 R.E. No., 12/14/82 Date

RECOMMENDED Dennis M. Peters, Engineer, C-18657 R.E. No., 12/14/82 Date

SCALE: AS NOTED

APPROVED T. J. Novak, General Manager, C-13413, 12/14/82 Date

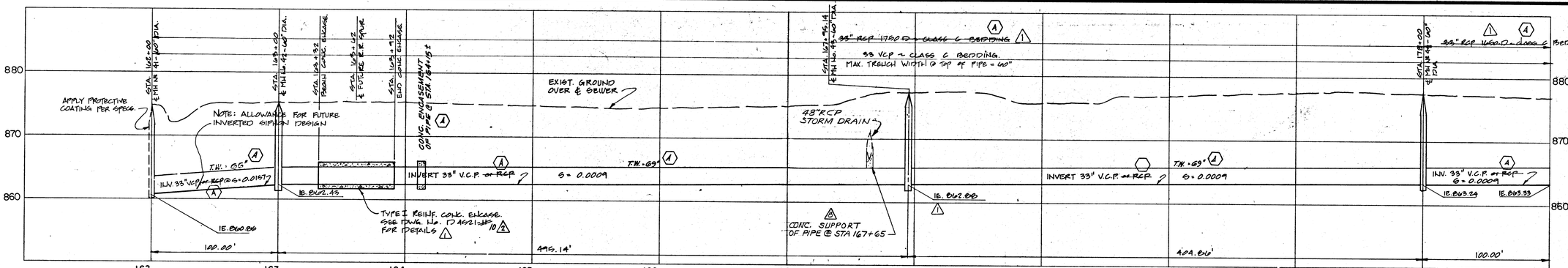
Designed R.B.S. 11-82
Drawn S.C.N. 11-82
Checked K.J.P. Date

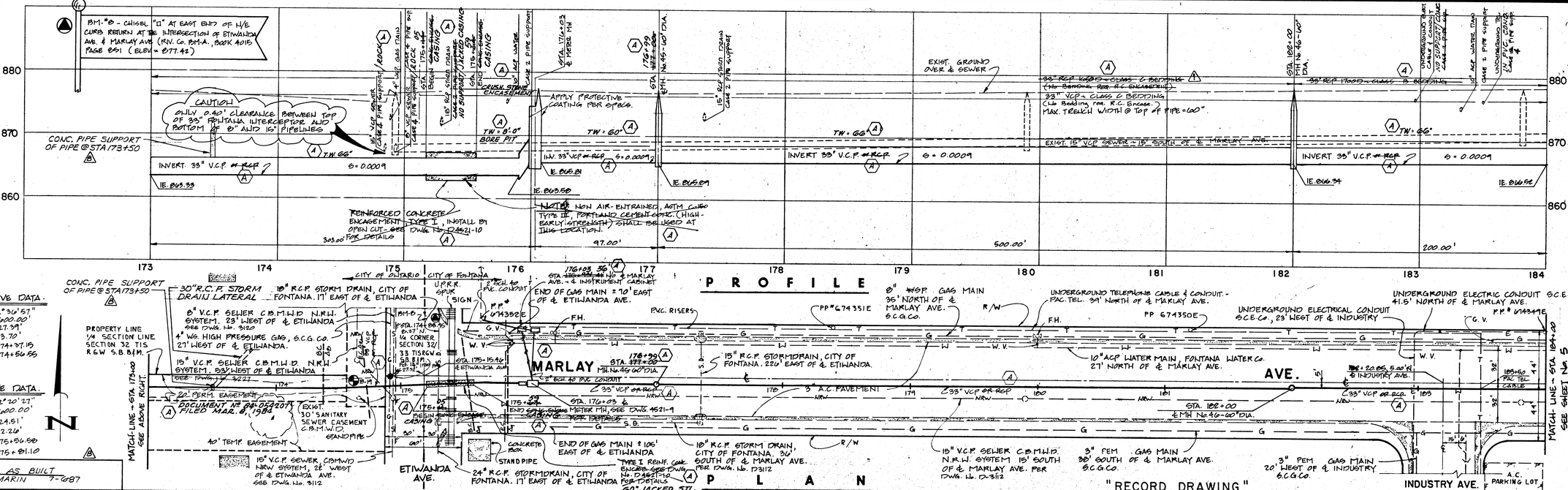
CHINO BASIN MUNICIPAL WATER DISTRICT
8555 Archibald Avenue, Cucamonga, California 91730
Post Office Box 697, Telephone (714) 987-1712

FONTANA INTERCEPTOR - III
LEGEND, GENERAL NOTES, ABBREVIATIONS, DWG. INDEX, VICINITY MAP and INDEX MAP

SHEET 1 OF 11 SHEETS
DWG. NO. D4521-1

2422 1/5





"RECORD DRAWING"

REV.	DATE	BY	DESCRIPTION
B	7-6-83	M & M	CONC. SUPPORT ADDED. "AS BUILT" ADDED.
A	11-1-82	L & A	"AS CONSTRUCTED" INFO. ADDED.
6	1-19-83	L & A	ADDENDUM #1
	10-18-82	JW	Manhole Change.
1			Positive Projection Drawn, Railroad Encasement &

SUBMITTED Robert B. Bellamy, Project Engineer, C-35487, R.E. No., 12/14/82 Date

RECOMMENDED James M. Peters, Engineer, C-18657, R.E. No., 12/14/82 Date

SCALE: HORIZ. 1"=40', VERT. 1"= 8'

CASING, MIN. 3/8" WALL THICKNESS SEE DWG. No D4521-10 FOR DETAILS.

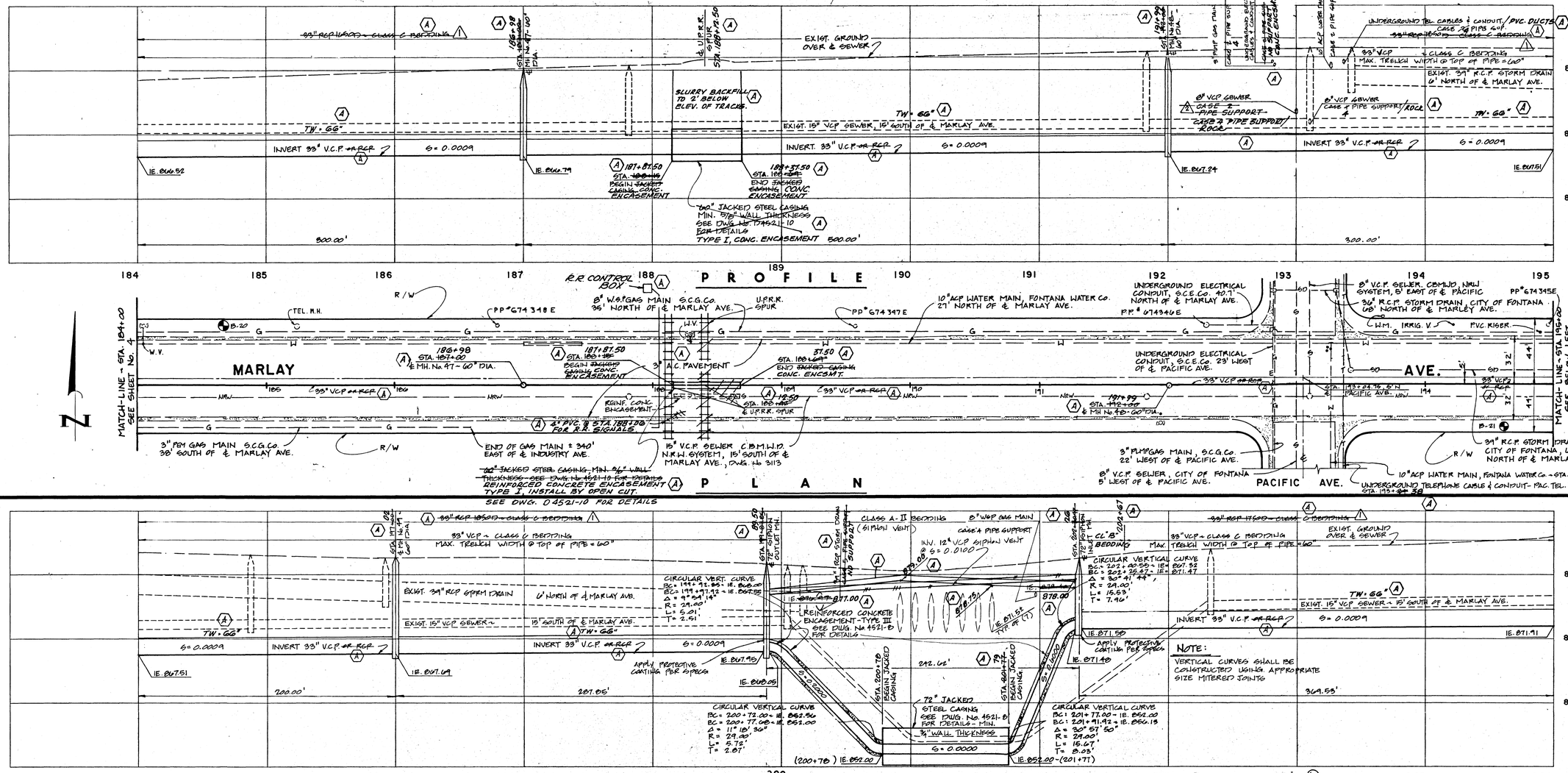
Designed	RBS	2-82
Drawn	SCN	2-82
Checked	RBS	10-82
		Date

CHINO BASIN MUNICIPAL WATER DISTRICT
8555 Archibald Avenue, Cucamonga, California 91730
Post Office Box 697, Telephone (714) 987-1712

FONTANA INTERCEPTOR - III
PLAN and PROFILE
Sta. 162 to Sta. 184

SHEET 4 OF 11 SHEETS
DWG. NO. D4521-4

2422 3/5



REV.	DATE	BY	DESCRIPTION
A	11-1-84	L.F.A.	"AS CONSTRUCTED" INFO. ADDED.
A	1-19-84	L.F.A.	ADDENDUM #1
1	10-19-83	SH	Position Projection Design

SUBMITTED Robert B. Gallup, Project Engineer — C-35487, R.E. No. — 12/19/82, Date

RECOMMENDED Kenneth N. Peterson, Engineer — C-18657, R.E. No. — 12/21/83, Date

SCALE: HORIZ. 1"=40', VERT. 1"=8'

APPROVED: General Manager — Date

APPROVED: Chief Engineer — R.E. No. — Date

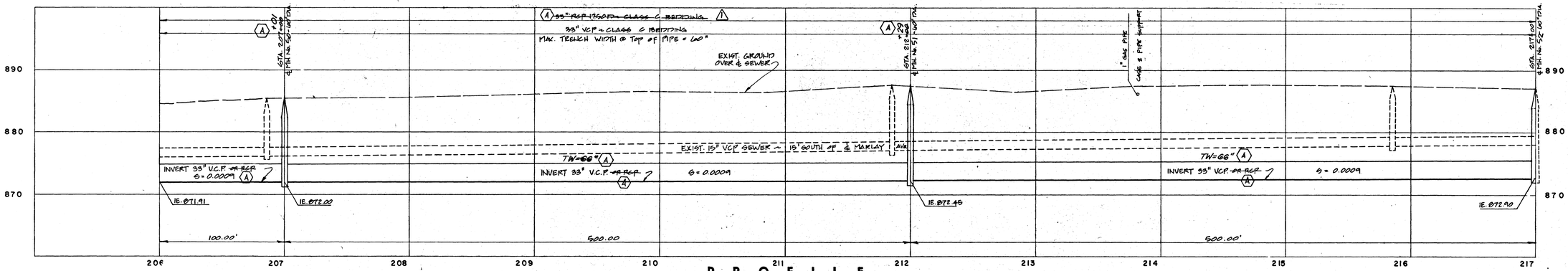
Designed RBS 2-82
Drawn SCN 2-82
Checked RBS 10-82
Date

CHINO BASIN MUNICIPAL WATER DISTRICT
8555 Archibald Avenue, Cucamonga, California 91730
Post Office Box 697, Telephone (714) 987-1712

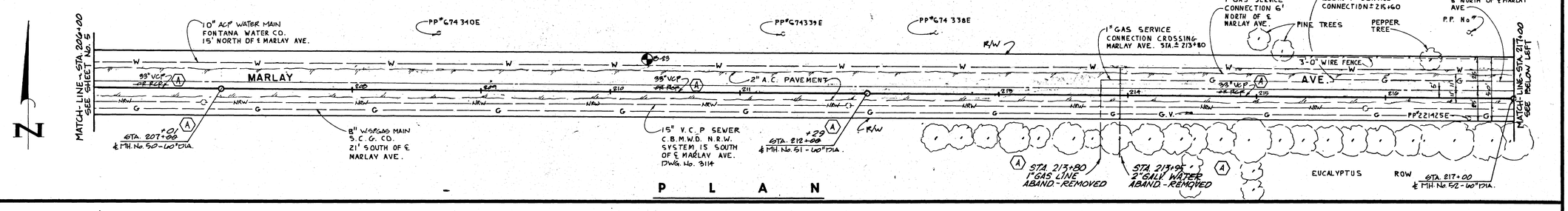
FONTANA INTERCEPTOR - III
PLAN and PROFILE
Sta. 184 to Sta. 206

SHEET 5 OF 11 SHEETS
DWG. NO. D4521-5

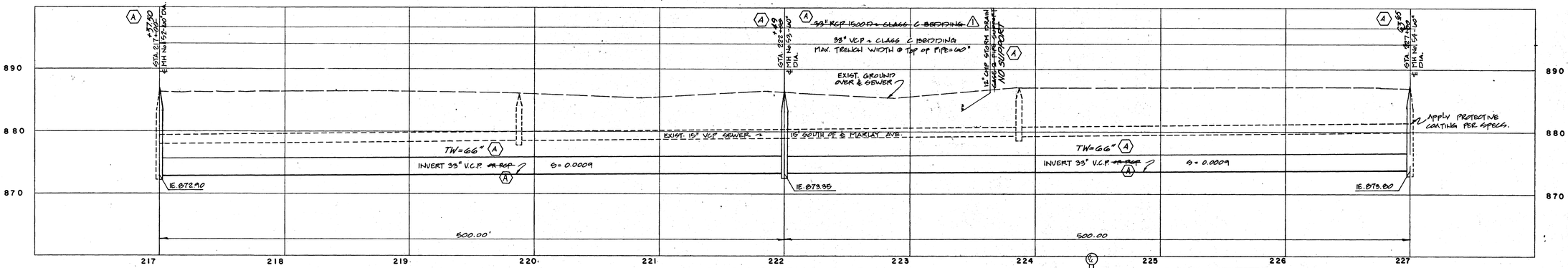
242-3/5



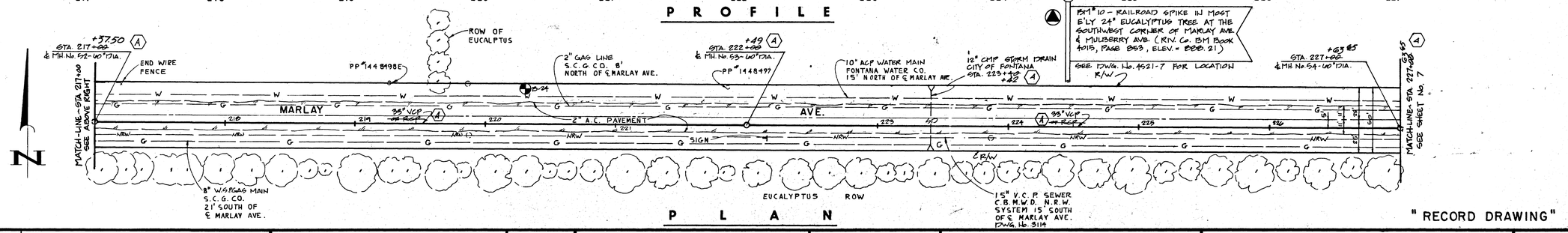
PROFILE



PLAN



PROFILE



PLAN

" RECORD DRAWING "

REV.	DATE	BY	DESCRIPTION
A	11-1-84	LEA	"AS CONSTRUCTED" INFO ADDED
1	10-10-89	SM	Positive Projection Design

SUBMITTED Robert B. Aguilera, Project Engineer — C-35487 R.E. No. — 12/14/82 Date

RECOMMENDED Engineer — C-18657 R.E. No. — 12/14/82 Date

SCALE: HORIZ. 1"=40' VERT. 1"=8'

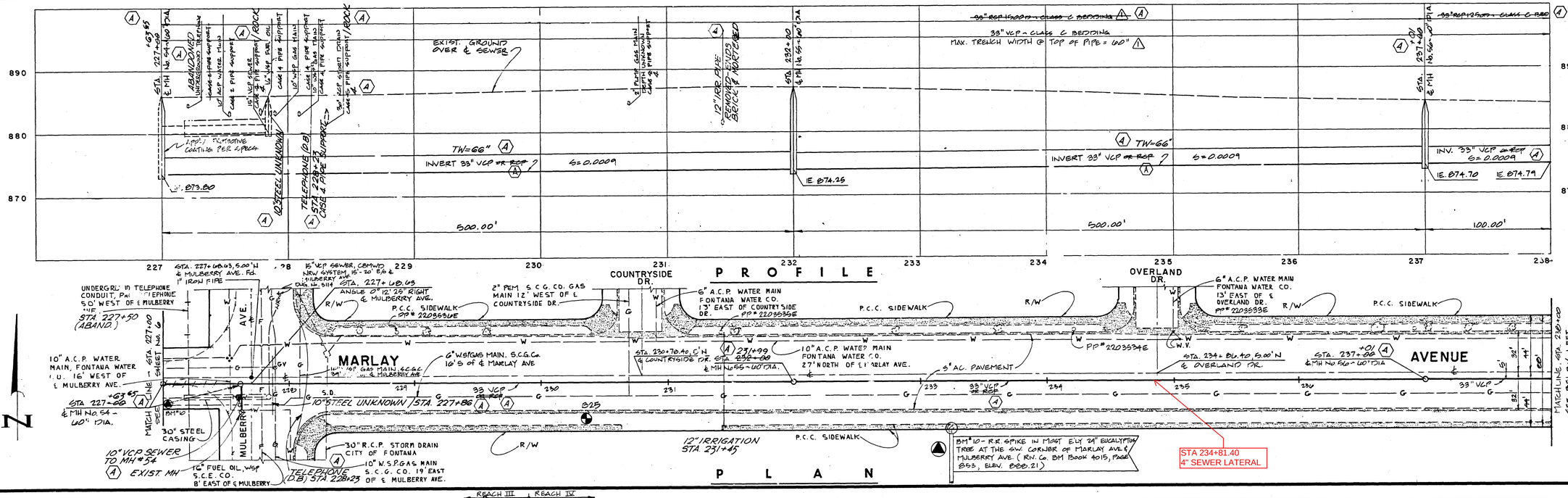
Designed RBS 2-82
Drawn SCN 2-82
Checked RBS 10-82

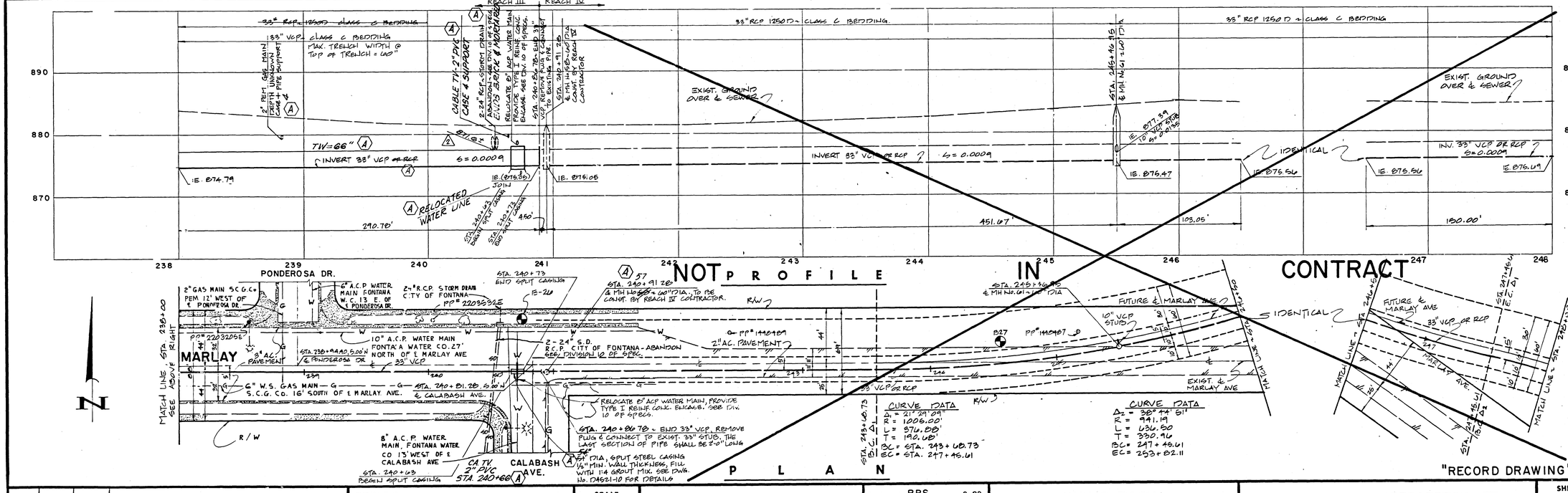
CHINO BASIN MUNICIPAL WATER DISTRICT
8555 Archibald Avenue, Cucamonga, California 91730
Post Office Box 697, Telephone (714) 987-1712

FONTANA INTERCEPTOR - III
PLAN and PROFILE
Sta. 206 to Sta. 227

SHEET 6 OF 11 SHEETS
DWG. NO. D4521-6

24RR 4/5





REV.	DATE	BY	DESCRIPTION
A	11-1-84	L.&A.	"AS CONSTRUCTED" INFO ADDED
2	1-19-84	L.&A.	ADDENDUM # 1
1	10-82	BY	PRELIMINARY DESIGN

SUBMITTED Robert B. Bellows — Project Engineer — C-35487 R.E. No. — 12/14/82 Date

RECOMMENDED — Engineer — C-18657 R.E. No. — 12/14/82 Date

SCALE
HORIZ. 1"=40'
VERT. 1"=8'

Designed RBS 2-82
Drawn SCN 2-82
Checked RBS 10-82
Date

CHINO BASIN MUNICIPAL WATER DISTRICT
8555 Archibald Avenue, Cucamonga, California 91730
Post Office Box 697, Telephone (714) 987-1712

FONTANA INTERCEPTOR - III
PLAN and PROFILE
Sta. 227 to Sta. 240+90.78

SHEET 7 OF 11 SHEETS
DWG. NO. D4521-7

21422 5/5

ATTACHMENT B
General Location for Connection F-37

Max Flow based on use

ADWF=0.0446 MGD

System Peaking for IEUA's Hydraulic Modeling:

PDWF=0.1384MGD (City Peaking)

PWWF=0.1475 MGD

RECEIVE AND FILE

3A

Building Activity Report - YTD Fiscal Year 2022/23

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+

TOTAL EDU BY WASTEWATER CONNECTION TYPE (YTD)

Contracting Agency	YTD Actual				Projected
	Commercial (EDUs)	Industrial (EDUs)	Residential (EDUs)	Total (EDUs)	Total (EDUs)
Chino	45	0	75	120	434
Chino Hills	25	0	2	27	19
CVWD	43	0	25	68	2050
Fontana	72	2	381	455	962
Montclair	19	2	0	21	474
Ontario	138	152	899	1190	3780
Upland	17	0	74	91	340
Total	359	157	1456	1972	8059

0 2.5 5 10 Miles

Fontana (Apr 2023)

Cucamonga Valley Water District (Apr 2023)

Upland (Apr 2023)

Chino Hills (Apr 2023)

Chino (Apr 2023)

Ontario (Apr 2023)

Montclair (Apr 2023)