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LAFCO SC # 355

LAFCO
San Bernardino County

APPLICATION FOR
EXTENSION OF SERVICE BY CONTRACT

AGENCY TO EXTEND SERVICE:

AGENCY NAME: County Service Area 42 (Oro Grande)
CONTACT PERSON: James A. Oravets – Division Manager
ADDRESS: 157 W. Fifth Street, Second Floor
PHONE: San Bernardino, CA 92415-0450
909-387-5940

CONTRACTING PARTY:

NAME OF
PROPERTY OWNER: Oro Grande School District
MAILING ADDRESS: P.O. Box 386, 19175 third St
PHONE: Oro Grande, CA 92368
ADDRESS OF PROPERTY
PROPOSED FOR CONTRACT 19900 National Trails Hwy
CONTRACT NUMBER/IDENTIFICATION: N/A
PARCEL NUMBER(S) 0468-241-01
ACREAGE: 56.36

The questions which follow are designed to obtain enough data about the proposed contract to allow the Commission and staff to adequately assess the service extension. By taking the time to fully respond to the questions below, you can reduce the processing time for this application. You may include any additional information which you believe is pertinent. Use additional sheets where necessary.

1. (a) List type of service(s) to be provided by this contract.

Water and Sewer Services

- (b) Are any of the services identified above "new" services to be offered by the agency? If yes, please provide explanation.

No, this District has been providing sewer and water service for decades

2. Please provide a description of the service agreement/contract. (Included in this description should be an explanation as to why a jurisdictional change is not possible at this time and whether this extension is an emergency health and safety situation.)

This contract is a service agreement between CSA 42 and the Oro Grande School District to provide water and sewer services to APN 0468-241-01, which is proposed for development of a new school. A Sphere of Influence (SOI) and annexation applications have been sent to LAFCO for consideration and approval. The school opening is proposed to pre-date the approval of the above mentioned actions therefore this out-of-agency service extension request is concurrently being submitted as an interim measure. Opening the school without these essential services would potentially pose a health and safety concern for the students.

3. Is annexation of the territory by your agency anticipated at some future time? Please provide an explanation.

Yes, an SOI and annexation application are currently being processed through LAFCO and are anticipated to be presented to the Commission in September of 2010. If approved, the SOI would be effective immediately while the annexation is finalized after a 30-day reconsideration period. Therefore, the out-of-agency service agreement/contract is being submitted as an interim measure to receive water and sewer service pursuant to Government Code Section 56133 (c) while the SOI expansion and annexation are being processed.

4. Is the property to be served within the Agency's sphere of influence?

Not currently, however, the District's SOI and Boundary are adjacent to the property.

5. If the service extension is for development purposes, please provide a complete description of the project to be served.

The project proposed by the Riverside Preparatory Charter School includes facilities for junior high and high school students including classrooms, a gymnasium and athletic fields. This is the first phase of a multi-phase project.

6. Has an environmental determination been made for this contract? If yes, provide a copy. If no, please provide an explanation.

No, not for this contract as this is just a contract for extension of water and sewer service. An environmental process was followed by the school district for the project.

7. Are there any land use entitlements involved in the project or contract? If yes, please provide a copy of the documentation for this entitlement. Please check those documents attached:

- Tentative Map and Conditions
 - Subdivision Map or Parcel Map
 - Specific Plan
 - General Plan Amendment
 - Rezoning
 - Other, (provide explanation below)
-

None

8. Please provide a detailed description of how services are to be extended to the property. Your response should include, but not be limited to, an explanation of distance for connection to existing infrastructure to site, the cost of improvements, how financing is to occur, and any special financial arrangement for later repayment.

Phase I of the project needed to pay fees only as connection points exist adjacent to the property. A feasibility study for service was prepared by the Agency to address both Phase I and build out conditions.

CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this evaluation of service extension to the best of my ability, and that the facts, statement and information presented herein are true and correct to the best of my knowledge and belief.

SIGNED BY:



POSITION TITLE: Division Manager

DATED:

08-03-10

REQUIRED EXHIBITS TO THIS APPLICATION:

1. Copy of the agreement.
2. Map showing the property to be served, existing agency boundary, and the location of infrastructure to be extended.
3. Plan for providing service signed by official of contracting agency.

Please forward the completed form and related information to:

Local Agency Formation Commission
215 North D Street, Suite 204
San Bernardino, CA 92415-0490
PHONE: (909) 383-9900 • FAX: (909) 383-9901
Email: lafco@lafco.sbcounty.gov

RECEIVED
AUG 04 2010

LAFCO
San Bernardino County

AGREEMENT
BETWEEN
ORO GRANDE SCHOOL DISTRICT AND
COUNTY SERVICE AREA 42

LAFCO SC # 355

This Agreement (the "Agreement") is entered into this Fourth day of August, 2010, by and between Oro Grande School District ("DISTRICT") and County Service Area 42 ("CSA 42"), a Board governed County Service Area special district, which are hereafter collectively referred to as the "Parties".

RECITALS:

A. WHEREAS, CSA 42 is a public agency authorized to provide water and sewer service within its boundary; and

B. WHEREAS, the DISTRICT is constructing a project, Riverside Preparatory Charter School (APN 0468-241-01), that is located outside of but adjacent to the CSA 42 boundary and requires sewer and water service; and

C. WHEREAS, the DISTRICT has caused to be prepared a "Water and Sewer Feasibility Study" for APN 0468-241-01 by CSA 42 showing its ability to provide the DISTRICT'S needed water and sewer service and the costs therefore, and DISTRICT agrees to the terms and conditions for water and sewer service as outlined in said study; and

D. WHEREAS, the DISTRICT has made application to the Local Agency Formation Commission (LAFCO) for a Sphere of Influence (SOI) expansion and future annexation to include APN 0468-241-01 within the boundary of CSA 42.

NOW THEREFORE, in consideration of the mutual benefits which will accrue to the Parties in carrying out the terms of this Agreement, it is mutually understood and agreed as follows:

AGREEMENT:

1. Provision of Water Service to APN 0468-241-01. CSA 42 shall provide all water required for domestic use and fire flow protection to the Riverside Preparatory Charter School parcel (APN 0468-241-01), subject to the terms and conditions for service as indicated in the revised Water and Sewer Feasibility Study for the project dated April 28, 2010 (Feasibility Study). DISTRICT has funded and shall provide for the installation of said appurtenances (piping and other items) required by the Feasibility Study for this service.

2. Provision of Sewer Service to APN 0468-241-01. CSA 42 shall provide sewer service to the Riverside Preparatory Charter School parcel (APN 0468-241-01), subject to the terms and conditions for service as indicated in the Water and Sewer Feasibility Study. Sewer service shall include the collection and transmission of

wastewater generated on the parcel for treatment at the Victor Valley Wastewater Authority regional wastewater treatment facility. DISTRICT has funded and shall provide for the installation of said appurtenances (piping and other items including the payment of VVWRA capacity charges) required by the Feasibility Study for this service.

3. Payment. DISTRICT shall receive bi-monthly billing statements for both water and sewer service and agrees to make payment in accordance with the approved CSA 42 rate and fee schedule as adopted annually by the County Board of Supervisors on behalf of CSA 42.

4. Term of Agreement. This Agreement shall become effective upon the signing of the agreement by both parties, the approval by LAFCO and shall remain in effect until such time as APN 0468-241-01 is annexed into CSA 42.

5. Assignment. Neither party may assign or transfer its rights or obligations under this Agreement without the express prior written consent of the other. This Agreement shall inure to the benefit of, and be binding upon, the lawful successors in interest and permitted assign of either party.

6. Indemnification. The DISTRICT shall indemnify, defend, and hold harmless CSA 42, it's authorized agents, officers, and employees against any and all claims or actions arising from DISTRICT's acts or omissions and for any costs or expenses incurred by CSA 42, on account of any claim therefore.

CSA 42 shall indemnify, defend, and hold harmless DISTRICT, it's authorized agents, officers, and employees against any and all claims or actions arising from CSA 42's acts or omissions, and for any costs or expenses incurred by DISTRICT on account of any claim therefore.

7. Insurance. CSA 42 and DISTRICT are authorized self-insured public entities for purposes of Professional Liability, Automobile Liability, Workers' Compensation and Property coverage and warrant that through their respective programs of self-insurance, they have adequate coverage or resources to protect against liabilities arising out of the performance of the terms, conditions or obligations of this Agreement.

8. Entire Agreement. This writing constitutes the entire agreement between the Parties with respect to the subject matter hereof, and supersedes all oral or written representations or written agreements which may have been entered into between the Parties prior to the execution of this Agreement.

9. All notices required or permits to be given under this Agreement shall be deemed given by delivery or by mailing, postage prepaid to the recipient party at its current address; the present address of the parties are as follows:

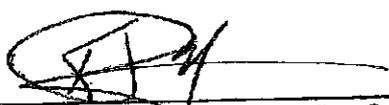
CSA 42 County Special Districts
157 West Fifth Street, Second Floor
San Bernardino, CA 92415

DISTRICT Oro Grande School District
P.O. Box 386, 19175 Third Street
San Bernardino, CA 92368

IN WITNESS WHEREOF, the Parties have executed this Agreement on the date set forth above.

ORO GRANDE SCHOOL DISTRICT

COUNTY SERVICE AREA 42



Dr. Kim P. Moore, Ph. D., Supt

Chairman, Board of Supervisors, acting
in its capacity as the governing body of
CSA 42

August 4, 2010

Date

Clerk of the Board of Supervisors

Date

SPECIAL DISTRICTS DEPARTMENT

COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP



157 West Fifth Street, Second Floor • San Bernardino, CA 92415-0450 • (909) 387-5940
Fax (909) 387-5968

JEFFREY O. RIGNEY
Director

April 28, 2010

Oro Grande School District
19175 3rd Street
Oro Grande, CA 92368

3147

Attn: Mr. Greg Lundeen
Associate Superintendent

REFERENCE: COUNTY SERVICE AREA 42, (DISTRICT) – REVISED WATER AND
SEWER FEASIBILITY STUDY APN 0468-161-04, RIVERSIDE
PREPARATORY CHARTER SCHOOL (ORO GRANDE SCHOOL
DISTRICT)

Dear Mr. Lundeen:

The District has completed the revised subject feasibility study for the new preparatory charter school project on APN 0468-161-04 for connection to CSA 42 water and sewer system.

A. PROJECT DESCRIPTION

The proposed project is an expansion for a new school campus on approximately 56 acres having an approximate total building square footage of 182,480, which is planned to be constructed in four phases. The property is located within the North 1/2 of Section 19, Township 6 North and Range 4 West. The proposed Project is bound by TXI Parkway to the North with National Trails Highway located to the northeast. The location of the proposed Project is shown in Figure 1 (water) and Figure 2 (sewer).

The proposed Project is located outside the CSA 42 service area boundary and the CSA 42 sphere of influence. Therefore, it will require annexation (to include the full parcel unless a new parcel map is approved by the San Bernardino County Planning Department before the project proceeds forward), including all fees, and approval by the LAFCO Board and the San Bernardino County Board of Supervisions.

Table 1, attached at the end of this report, shows the plumbing fixture units count for the proposed project. Based on 1 equivalent dwelling unit (EDU) equating to 20 PFU, the total EDUs for the water requirement are estimated to be 34 while that for sewer is 41. The plumbing fixture unit (PFU) count was provided by the School District's Project Engineer. The School District must submit the final improvement plans of the proposed project for the purpose of verifying the final connection fees.

MARK H. UFFER
County Administrative Officer
NORMAN A. KANOLD
Assistant County Administrator
Public and Support
Services Group

Board of Supervisors
BRAD MITZELFELT First District NEIL DERRY Third District
PAUL BRANE Second District GARY C. OVITT Fourth District
JOSIE GONZALES Fifth District

B. WATER REQUIREMENT AND WATER SYSTEM ANALYSIS

The District's required operational well production set by the County Environmental Health Services Department (EHS) is currently at 200 gallons per minute (gpm) to meet the maximum day demand. The District at present has four water source wells providing domestic water to the system. These wells are located in a shallow aquifer that has a varying water table based on the seasonal rainfall recharge. The EHS requires that CSA 42 have the ability to meet max-day demand with its largest supply source out of service. The combined production rate of the existing wells ranges from 150 gpm (from September through April) to 300 gpm (from April through September). The combined well production currently does not meet EHS's required capacity on an average of one-third of the year; this well supply capacity concern becomes more prevalent if the largest production well is out of service.

The District's current supply of potable water is not sufficient to maintain continuous service for the proposed project, as determined by the EHS. Therefore, the project is required to provide the District with additional water supply in the form of a new domestic water well. The well must be designed to District Standards, drilled in accordance with District specifications, and equipped with equipment meeting AWWA, District and all industry standards and water quality objectives. Upon completion and successful testing, the well shall be deeded to the District for the use and benefit of the Project and the District.

An average day water demand of 500 gallons per day (gpd) per EDU was used based on similar rural communities in the high desert. To assess the impact of the project on the existing water system, the daily water requirements are estimated as shown below and the maximum-day demand takes into consideration that water usage occurs over an 8 to 10 hour period each day.

$$\begin{aligned} \text{Average day demand (ADD)} &= 34 \text{ EDU} \times 500 \text{ gpd/EDU} \\ &= 17,000 \text{ gpd} \end{aligned}$$

$$\begin{aligned} \text{Maximum day demand (MDD)} &= 2.5 \times \text{ADD} / 1,440 \text{ minutes per day} \\ &= 42,500 \text{ gpd} \\ &= 29.5 \text{ gpm (gallons per minute)} \end{aligned}$$

Fire Flow Requirements: At the time the existing water distribution system was constructed, the fire flow requirement was 750 gpm for two and half hours for rural development. The current fire flow for commercial/institutional development is as follows:

- 1,750 gpm for a 2 hour period from 3,600 - 4,800 SF building (Not Rated),
- 2,000 gpm for a 2 hour period from 4,801 - 6,200 SF building (Not Rated),
- 3,000 gpm for a 2 hour period from 11,301 - 13,400 SF building (Not Rated),
- 4,000 gpm for a 4 hour period from 20,000 - 23,300 SF building,
- 4,250 gpm for a 4 hour period from 23,301 - 26,300 SF building.
- 50% x above fire flows (4,000 gpm or 4,250 gpm) for buildings with sprinklers.

The above-mentioned fire flow requirements were obtained from the San Bernardino County Fire Department and represent the general requirements for this type of development. This project falls under the jurisdiction of the office of the California State Fire Marshall. The initial fire flow requirement, based on all structures having a fire sprinkler system, has been set by the State at 1,500 gpm for a 2-hour duration. A fire flow test, run by the District on March 30, 2010, indicated a calculated flow of 2,531 gpm at the required 20 pounds per square inch (psi) is available to the site. The District can provide fire protection to the project. The developer is responsible for the on-site design to maintain the available fire protection by minimizing head loss.

Water Supply and Storage Requirements: Required supply/storage for the proposed development is as shown below. CSA 42 staff will continue to monitor its supply and storage capability to ensure adequate service to its customers.

Domestic Water Supply Requirement (MDD)	=	29.5	gpm
Operational Storage-(0.3 x MDD)	=	12,750	gallons
Emergency Storage-(1.0 x MDD)	=	<u>42,500</u>	gallons
Storage Requirement Subtotal (without fire)	=	55,250	gallons
Fire Storage (1,500 gpm x 2 hours)	=	180,000	gallons

The proposed project receives water from the only reservoir serving CSA 42. The existing reservoir has a storage capacity of 250,000 gallons. Referencing the high water level at the reservoir (2,776 feet) and the approximate ground elevation at the project site (2,650 feet), the static pressure at the proposed parcel should theoretically be 55 psi. Figure 1 shows the existing distribution piping system near the proposed project location.

On-site Water Improvement: The School District will be entirely responsible for all costs of internal plumbing facilities. On site public distribution pipelines must be protected by detector check valves, back flow preventers, and reduced pressure (RP) devices as approved by the Special Districts Department and installed in proper easements.

Off-site Water Improvement: There is an existing 12-inch and 6-inch water distribution main along National Trails Highway on the northeast side for this project to connect to (see Figure 1). The School District is responsible for an 8-inch pipeline extension starting from the existing 6-inch pipeline at National Trails Highway running westerly along TXI Parkway for about 2,000 LF along the north side of the proposed project as part of Phase I of the project. Estimated cost of the off-site pipeline is about \$120,000 (This cost is for planning purposes only; it includes hydrants, piping, valves and engineering). The School District shall be required to reference all necessary utility easements on the design drawings and submit easement documents when presenting first plan check. The water system will be able to provide the maximum day demand requirement and maintain the minimum required residual pressure of 40 psi. The project must construct a new parallel water transmission line (12-inch) from the existing water reservoir to the Project site as part of Phase II of the project. The cost of the pipeline would be the responsibility of the Project.

C. WASTEWATER FLOW AND SEWER SYSTEM ANALYSIS

The proposed school expansion project will be considered as 41 EDUs. The average wastewater flow per EDU in CSA 42 is assumed to be 245 gpd as set forth by the Victor Valley Wastewater Reclamation Authority (VWRA). The projected wastewater flow is as follows:

$$\text{Projected Average Daily Flow} = 41 \text{ EDU's} \times 245 \text{ gpd/EDU} = 10,045 \text{ gpd}$$

Based on the estimated EDUs and the sewer system information for CSA 42, the existing sewer system has adequate capacity to serve the proposed project.

On-site Sewer Improvement: The School District is responsible for on-site collector sewer system and laterals. All public pipelines must be a minimum 8-inch in diameter. The sewer improvement plans must be submitted for plan check by CSA 42.

Off-site Sewer Improvement:

Option No. 1: An existing 8-inch collector sewer along Alley No. 5 is located on the northeast side of the proposed project to make connection; however the existing line is at a higher elevation. Therefore, the proposed project will be required to construct an on-site sewage lift station (refer to Figure 2 for the ground surface elevations based on the USGS map). The wastewater flows will be conveyed easterly along National Trails Highway via a public 4-inch force main for approximately 1,700 L.F. Then it will be connected to a proposed collector sewer of about 500 L.F. along National Trails Highway to tie-in to the existing clean out at Alley No. 5 (refer to Figure 2), and onto the VWRA wastewater treatment plant across the Mojave River via an existing gravity sewer pipeline, a VWRA sewage lift station and a gravity interceptor sewer (not shown in Figures 2 and 2A). The School District or its engineer must coordinate with CSA 42 staff regarding the actual point of connection. The estimated cost for the sewage pump station and force main extension is as follows:

1.	1,850 L.F. of 4-inch Force Main @ \$30/L.F.	\$ 55,500.00
2.	800 L.F. of 8-inch gravity sewer @ \$60/L.F.	\$ 48,000.00
3.	Two Submersible Private Sewage Pumps and Piping (Including allowance for wet well, power, control & telemetry, odor control, fencing, etc.)	<u>\$ 100,000.00</u>
	Subtotal =	\$ 203,500.00
	Allowance for Contingency, Engineering, Inspection and Administration (25%)	= <u>\$ 50,875.00</u>
	Total Estimated Project Cost	= <u>\$ 254,375.00</u>

VWRA verification of available capacity is required and will be addressed in conjunction with the annexation process. This Option will require that the School to maintain the new wastewater lift station.

Option No. 2: We have also identified in Figure 2A a gravity option (8-inch sewer; L = 2,400 L.F) where the wastewater flow can connect directly to the Oro Grande trunk sewer (maintained by the VVWRA). This option will require co-ordination between CSA 42 and the Victor Valley Wastewater Reclamation Authority (VVWRA) for available capacity. Estimated cost for the proposed trunk sewer is \$144,000.

For any utility easements required for offsite pipeline extensions, it is the School District's responsibility to acquire such easements prior to approval of waterline or sewerline construction plans. The School District shall be required to reference all necessary utility easements on the design drawings and submit easement documents when presenting first plan check. For the off-site pipeline extension, CSA 42 will consider a "reimbursement agreement" if other parcels along the pipeline extension can connect to this new pipeline.

D. COST OF REQUIRED IMPROVEMENTS AND CONNECTION FEES

Water Facilities:

Based on the equivalent dwelling unit (EDU) determination and current connection fee assessed for County Service Area 42, the water facility connection fee (to make improvements to water supply source, storage and transmission piping system) is estimated as follows:

$$\text{Connection fee} = 34 \text{ EDUs} \times \$ 2,314.42/\text{EDU} = \$ 78,690.28$$

Sewerage Facilities:

Based on the equivalent dwelling unit (EDU) count and current connection and regional treatment costs (for VVWRA interceptor and treatment/disposal/sludge handling), the sewer connection fees are as follows:

(1) CSA 42 connection fee: This fee is for utilizing existing collector sewer system. The connection cost is estimated as follows:

$$41 \text{ EDUs} \times \$ 407.35/\text{EDU} = \$ 16,701.35$$

(2) Regional connection fee: This fee is for utilizing capacity in the regional interceptor sewer and the treatment plant owned and operated by the VVWRA. The estimated regional connection fee is as follow:

$$41 \text{ EDUs} \times \$ 3,750/\text{EDU} = \$ 153,750.00$$

E. SUMMARY

The existing CSA 42 water and sewer systems are capable of providing service to the proposed Oro Grande school project subject to completion of the on-site improvements, off-site improvements, the payment of required local buy-in/connection and regional

connection fees as discussed above, and successful annexation to CSA 42. Following is a summary of costs associated with providing water and sewer service. These costs could vary depending on options identified in the study or mitigation requirement from County:

Water:

- (1) On-site piping / plumbing = School District to construct
(Including detector check valve and meter, backflow RP devices)
- (2) Off-site piping = \$ 120,000.00
(Ownership to be conveyed to CSA 42 after installation)
- (3) Domestic Water Well = School District to construct
(Ownership to be conveyed to CSA 42 after testing and permitting)
- (4) Fire Sprinkler System = School District to install
- (6) CSA 42 Water Connection Fee = \$ 78,690.28

Sewer:

- (1) On-site piping / plumbing = School District to construct
- (2) Off-site piping (Option No. 1, Figure 2) = \$ 254,375.00
- (3) Off-site gravity piping (Option No. 2, Figure 2A) = \$144,000.00
(2,400 L.F. with some dewatering)
(Ownership to be conveyed to CSA 42 after installation)
- (4) CSA 42 sewerage connection fee = \$ 16,701.35
(Refer to Section D)
- (5) VVWRA regional connection fee = \$ 153,750.00
(Refer to Section D)

The monthly water user fee is based on the size of the water meter installed (fixed service charge) and the actual water usage. The monthly sewer user fee for each equivalent dwelling will be determined by Special Districts Department staff at the time of permit application. Water meter installation and sewer connection permit and other related plan check and inspection (for 8-inch water pipeline) fees will also be determined and collected at the time of permit application.

Information provided in this letter report is valid for a period of one year from the date of the Final Report. The above water and sewer connection fees, costs and credits will be subject to updates as well as inflationary adjustments by the County Special Districts Department, Water and Sanitation Division and the VVWRA, depending on commencement and completion of the project. If the Land Use Zoning, and/or project scope changes, then this study is no longer valid and this Feasibility Study will have to be revised based on the new land use status and any changes to the project.

The School district or its engineer may wish to schedule a meeting with CSA 42 staff to go over the report findings and recommendation. We trust that information provided in this Report will be helpful to the School District.

Sincerely,



James A. Oravets
Division Manager

Enclosure

cc: Gary Martin, Division Engineer
Steve Samaras, Operations Manager

APN 0468-161-04

RIVERSIDE
CEMENT
COMPANY

CSA 42 BOUNDARY

CSA 42 BOUNDARY

PROPOSED PIPELINE

J12 TXL PARKWAY

PROPOSED PROJECT
PART OF APN 0468-161-04



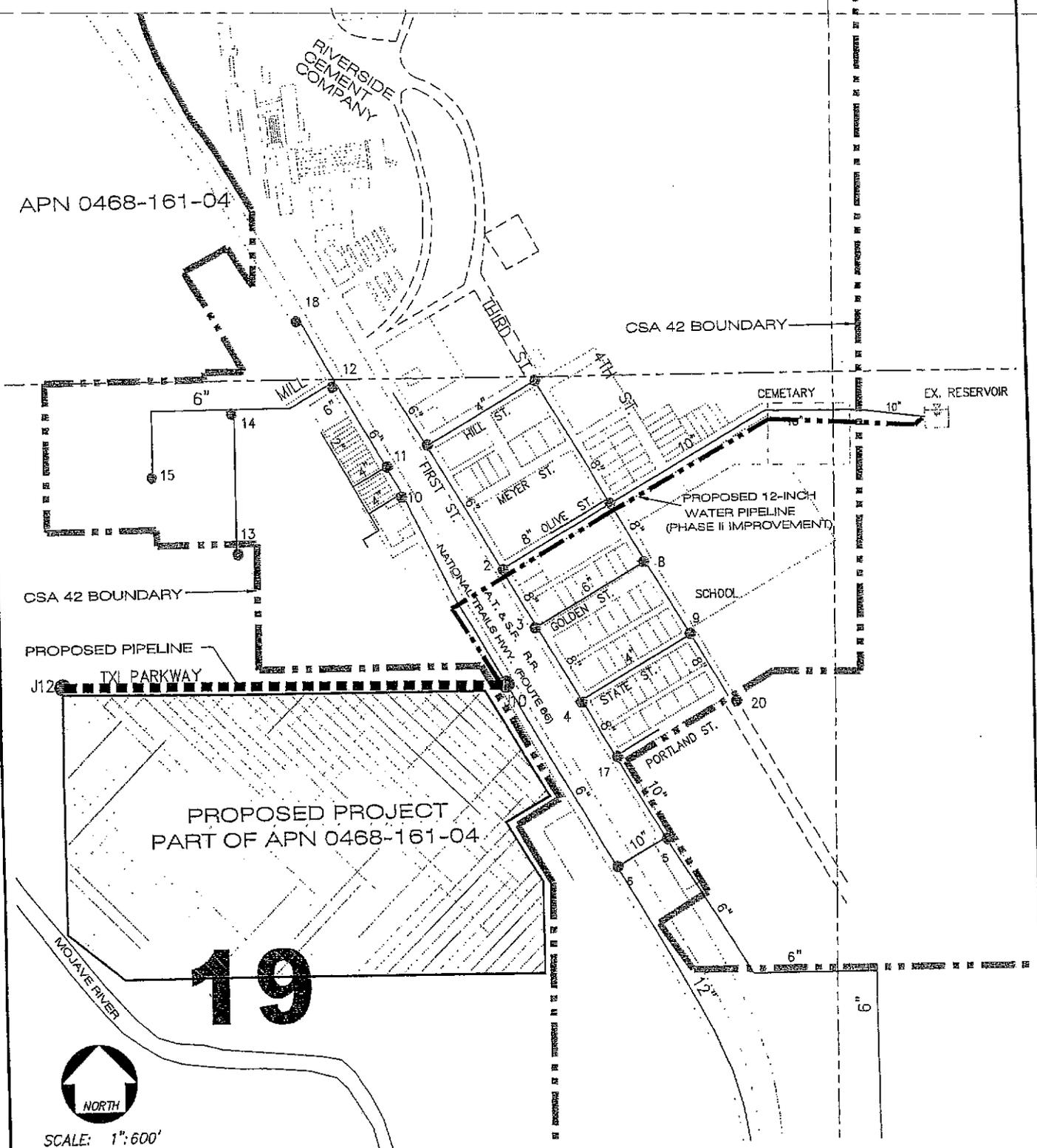
SCALE: 1"=600'

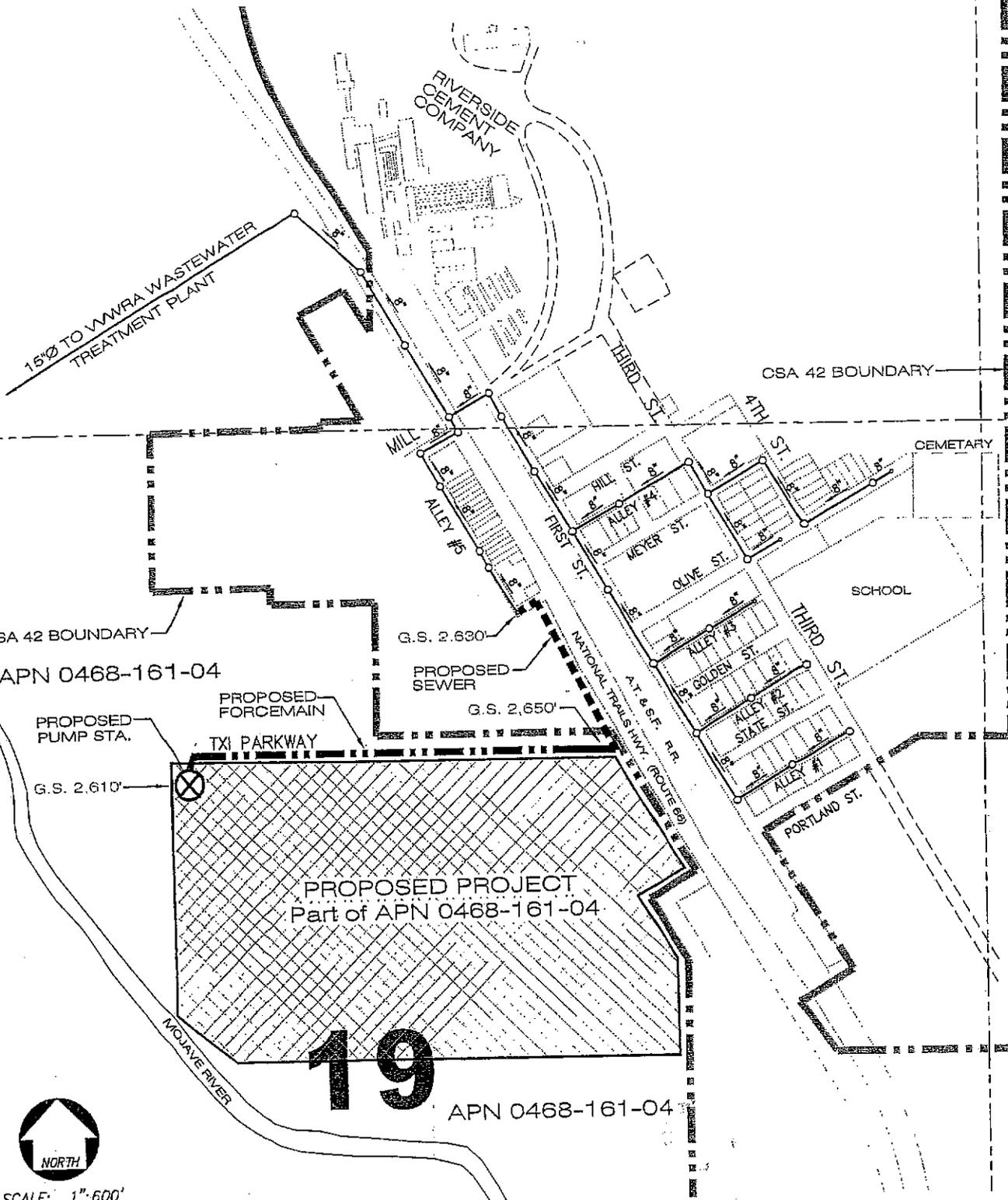
- PROPOSED 8-INCH PIPELINE (L=2,000± FT)
- PROPOSED 12-INCH PIPELINE (PHASE II IMPROVEMENT)

PREPARED BY:

**So & Associates
Engineers Inc.**

FIGURE 1
COUNTY OF SAN BERNARDINO - CSA 42
WATER FEASIBILITY STUDY
APN 0468-161-04
(Oro Grande School District)





SCALE: 1"=600'

- PROPOSED 4-INCH SEWER FORCE MAIN (L=1,850± FT)
- PROPOSED 8-INCH SEWER COLLECTOR (L=800± FT)

PREPARED BY
**So & Associates
Engineers Inc.**

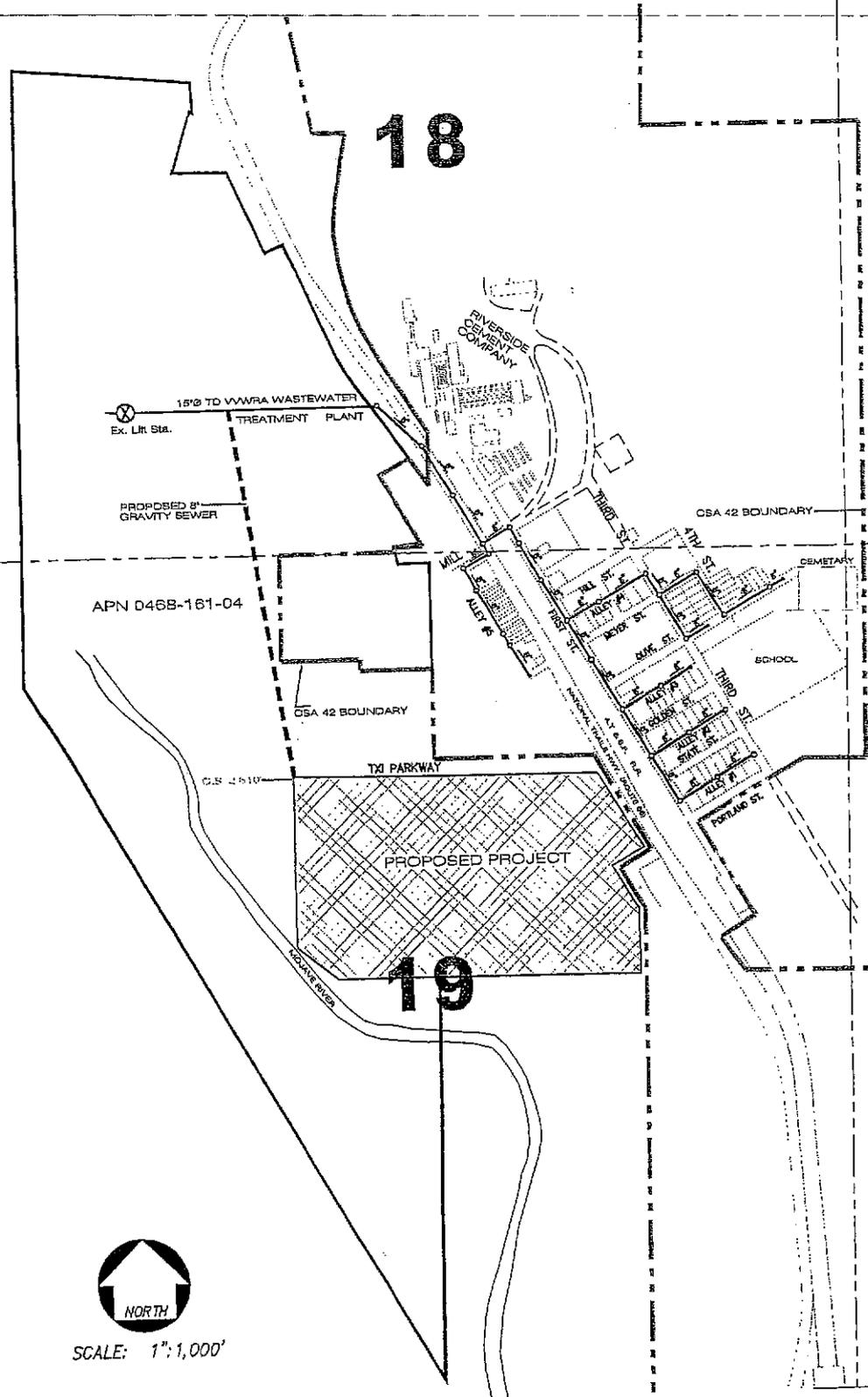
**FIGURE 2 (OPTION 1)
 COUNTY OF SAN BERNARDINO - CSA 42
 SEWER FEASIBILITY STUDY
 APN 0468-161-04
 (Oro Grande School District)**

19

APN 0468-161-04

18

19



SCALE: 1"=1,000'

PROPOSED 8-INCH GRAVITY SEWER (L=2,400± FT)

FIGURE 2A (OPTION 2)
COUNTY OF SAN BERNARDINO - CSA 42
SEWER FEASIBILITY STUDY
APN 0468-161-04
(Oro Grande School District)

TABLE 1: PLUMBING FIXTURE UNIT COUNT
CSA 42: Riverside Preparatory Charter School

Building	Description	QTY	Water PFU Coefficient ⁽¹⁾	Sewer PFU Coefficient ⁽¹⁾	Water ⁽²⁾ PFU	Sewer ⁽²⁾ PFU
School Building/Space	Water Closets	85	2.5	4	213	340
	Sinks	168	2	2	336	336
	Urinals	13	2	2	26	26
	Shower Heads	46	2	2	92	92
	Drinking Fountains	25	0.5	0.5	13	13
	Floor Sink	6	-	2	-	12
	Washing Machine	1	4	3	4	3
	Water Heaters	12	0.5	0.5	6	6
Total PFUs					689	828
Total EDUs					34	41

Note:

- (1) Based on 2007 California Plumbing Code
- (2) The quantities were provided by the developer's engineer
- (3) 1 Equivalent Dwelling Unit (EDU) equivalent to 20 Plumbing Fixture Units (PFUs)