

INLAND FOUNDATION ENGINEERING, INC.

Consulting Geologist
www

February 24, 2021
Project No. S168-182

Attention: Mr. Tony Finaldi
STK ARCHITECTURE, INC.
42095 Zevo Drive, Suite A15
Temecula, California 92590

San Bernardino County Department of Public Health Division of Environmental Health Services		EHS REF# _____
Percolation Report		
DESIGN RATE: 58 square feet per 100 gallons septic tank capacity		
This rate applies to:		
<input checked="" type="checkbox"/> Location(s) where tested	<input type="checkbox"/> Leach lines/bed	<input checked="" type="checkbox"/> Seepage pits
<input type="checkbox"/> Replacement only	<input type="checkbox"/> Entire lot/subdivision	<input type="checkbox"/> Limited to:
Additional requirements:		
<input type="checkbox"/> Maintain septic tank minimum _____ ft setback from _____		
<input type="checkbox"/> Maintain disposal area minimum _____ ft setback from _____		
<input type="checkbox"/> New construction requires perc test	<input type="checkbox"/> Clearance from _____	RWQCB
<input type="checkbox"/> EHS special conditions apply		
CONSTRUCTION DETAILS SUBJECT TO BUILDING AND SAFETY APPROVAL		
Design Rate Issued By: Ivy Saguan <i>Ivy Saguan</i>		Date: 05/13/2021

Re: Revised Percolation Testing and On-Site Wastewater Treatment System (OWTS) Design
Proposed Rancho Yard Building
San Bernardino County Public Works Department:
12158 Baseline Road, Rancho Cucamonga, California
Assessor Parcel No. 1089-031-39

Dear Mr. Finaldi:

Transmitted herewith are the results of percolation testing performed at the referenced site. The purpose of this study was to evaluate the feasibility of an on-site wastewater treatment system (OWTS) for the proposed Rancho Yard building. The testing was performed in accordance with the current requirements of the County of San Bernardino Department of Public Health, Division of Environmental Health Services (DEHS). We make no other warranty, either express or implied. Our field investigation was performed by a certified engineering geologist. An experienced staff geologist performed the actual percolation testing. The investigation and testing was performed under the supervision of Allen D. Evans, a registered civil and geotechnical engineer.

The following references were provided for use for this project:

- Project plans entitled "San Bernardino County Public Works Department Public Works Department: Rancho Yard New Building, Project No. 1010-0692, 12158 Baseline Road, Rancho Cucamonga, CA 91739", dated July 2020, prepared by STK Architecture, Inc.
- Revised Plumbing Plan, Sheet PO.1, Plumbing Legend Notes & Schedules, dated September 2020, prepared by Design West Engineering.
- Report entitled "Geotechnical Investigation, Proposed Public Works Yard Improvements (CIP-19-050), 12158 Baseline Road, Rancho Cucamonga, California", dated March 8, 2019, prepared by Geocon West, Inc.

1. **DESCRIPTION OF SITE AND OF PROPOSAL:**

1.1 *Date/individual that was notified of testing:* Boring excavation for seepage pit testing took place on January 19, 2021. Seepage pit testing was performed on January 20, 2021.

1.2 *Prepared for:* **Client:** STK Architecture, Inc.
Address: 42095 Zevo Drive, Suite A15
Address: Temecula, California
Phone: 951-377-6009

1.3 *Location of Land:* The existing San Bernardino County Public Works Department Rancho Yard is located at 12158 Baseline Road in the City of Rancho Cucamonga, California. The Assessor Parcel No. for the subject site is 1089-031-39. The site rests in the southwesterly portion of Section 32, Township 1 North, Range 6 West, S.B.B.&M. The site coordinates are $\pm 34.1236^{\circ}\text{N} / -117.5395^{\circ}\text{W}$ (WGS 84). The site is bounded to the west by a storage yard, to the east by a shopping center and Day Creek Boulevard, to the north by the Pacific Electric Bike Trail, and to the south by Baseline Road. The location of the proposed building and OWTS are shown on the vicinity map below (Figure 1).

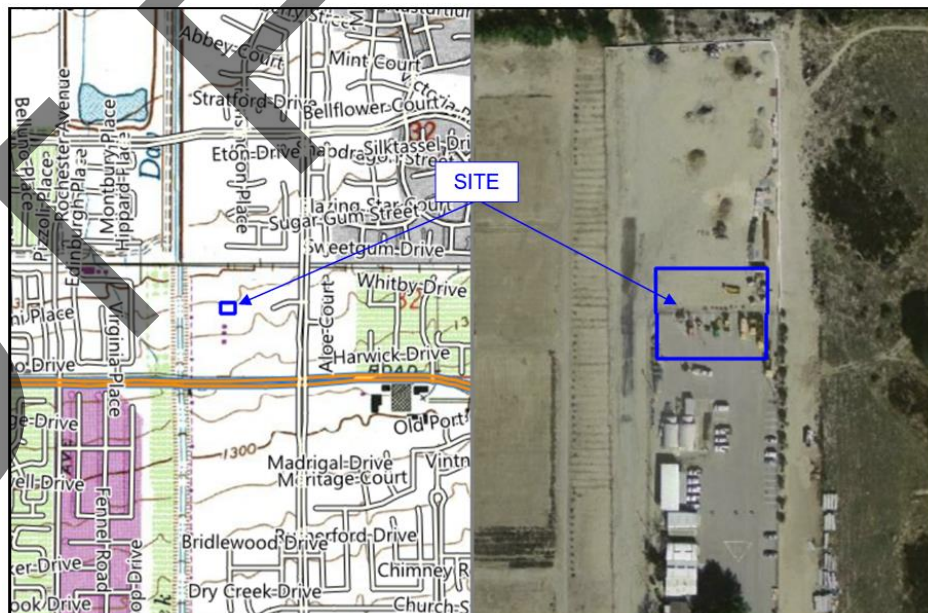


Figure 1: USGS Topographic Map, Guasti 7.5' Quadrangle, and Aerial Photograph (2018)

1.4 *Proposed Development:*

We understand the proposed construction will consist of a $\pm 3,300$ square foot metal structure to be located near the center portion of the existing San Bernardino County Public Works Department Rancho Yard facility. On-site sewage disposal for this facility will consist of a conventional septic tank and seepage pits, located to the south of the proposed building. At the present time, the proposed OWTS site is in use as a paved parking area.

1.5 *Description of Site and Surroundings:*

- a.) *Topography:* The topography of the site is relatively planar with a very slight gradient to the south. Based on the referenced USGS topographic map, the elevation of the site is $\pm 1,338'$ above mean sea level (msl).
- b.) *Water Courses:* There are no perennial or ephemeral stream courses within 200 feet of the proposed disposal system.
- c.) *Vegetation Type and Density:* The site is currently in use as a paved parking lot. No vegetation is present in the vicinity of the proposed OWTS.
- d.) *Existing Structures:* Currently, the Rancho Yard facility is occupied by single-story maintenance buildings and is in use as a storage yard. There are no existing structures in the near vicinity of the proposed OTWS.
- e.) *Existing Wells or Abandoned Wells on or within 600 feet of the proposed disposal area:* Based on our research, no water supply wells are known to exist within 600 feet of the proposed septic system.
- f.) *Rock Outcroppings:* No rock outcroppings were observed in the area of the proposed OWTS.

- g.) *Probable Depth to Historic Groundwater:* Groundwater was not encountered in either of the borings which extended to a maximum depth of approximately 50 feet. According to the Watermaster Support Service Fall 2019 Cooperative Well Measuring Program, a recently monitored well (State Well 01N06W30F001), located approximately 1.5 miles northwest of the subject site, was monitored on October 24, 2018. At that time, the measured depth to groundwater was 561 feet below the existing ground surface. According to the State of California Department of Water Resources Data Library, State Well No. 01S07W14L001S, located approximately 1.5 miles southwest of the subject site, was monitored on November 25, 2019. At that time, the depth to groundwater was 443 feet.

Based on the groundwater data reviewed, the depth to groundwater below the project site is more than 400 feet.

- h.) *Any Other Features That May Affect Sewage Disposal:*
None known.
- i.) *Grading:* We understand that site grading will be limited to preparation of the new building pad. No grading is planned in the vicinity of the proposed OWTS.

2. **EQUIPMENT:**

- 2.1 The following equipment was used during our percolation testing study:

- a.) Truck mounted drill rig with an 8-inch, hollow stem auger (CME-75)
- b.) 600-gallon water trailer
- c.) 2.5" diameter hose with nozzle
- d.) Tape measure
- e.) Water level meter
- f.) 3" perforated PVC pipe
- g.) Gravel
- h.) Watch

- 3.1 *Locations of Borings and Percolation Tests:* Borings were located in the general area of the proposed subsurface sewage disposal system (south of proposed new building). The locations were selected at the site by representatives of STK Architecture and this firm. The locations of the borings are shown on the Plot Plan (Figure A-4).
- 3.2 *Soil Characteristics of the Subject Site:* Soil characteristics of the site are favorable for subsurface sewage disposal. There was no visible evidence of shallow groundwater or impervious soil or bedrock. Testing was consistent with observed conditions.
- 3.3 *Number of Exploratory Borings:* Two exploratory borings were drilled to depths of 40 and 50 feet beneath the existing ground surface.
- 3.3.1) *Boring Results:* Materials below the anticipated inlet depth of the proposed seepage pits consisted of alluvial deposits generally classified as fine- to coarse poorly graded sand with gravel and cobbles (SP), gravel with sand and cobbles (GW), and silty sand (SM). Although not encountered, boulders are common in these type of alluvial deposits and may be encountered during drilling of the seepage pits. The alluvial materials encountered were slightly moist to moist and medium dense to dense. No groundwater or reduction-oxidation mottling was observed within the exploratory test borings. See attached boring logs (Figure Nos. A-2 and A-3) for more details.
- 3.4 *Minimum Number of Tests for Seepage Pits:* A minimum of two percolation test holes were required for this investigation. Two percolation test holes were tested on the subject site.
- 3.4.1) *Percolation Testing Procedure:* Exploratory borings B-01 and B-02 were drilled to depths of 50 feet and 40 feet, respectively, with hole diameters of 8 inches. Boring B-01 was backfilled to a depth of 40 feet prior to testing. Percolation testing for the seepage pits was performed in

general accordance with the guidelines and regulations of the County of San Bernardino Division of Environmental Health Services. The falling head percolation test procedure was used. A 3-inch diameter perforated pipe was installed in each of the borings. Gravel was then placed around the pipes to prohibit caving during testing. Corrections were made for gravel packing the test holes. Each hole was presoaked on the day of drilling (January 19, 2021). Testing commenced the following day. The 3-inch pipes were filled with water to the ground surface and the level was read after 30 minutes with a water level meter and then recorded. The pipes were then refilled to the initial level and the process was repeated for 6 hours. In the final hour, the water level was not refilled but was still read and recorded.

- 3.4.2) *Percolation Test Results:* Seepage rates were determined in general accordance with San Bernardino County DEHS requirements. Measured field data was used to calculate the seepage rates, including a gravel correction factor, using the following equation:

$$Q = \frac{\Delta d \times D \times 9}{(d_b - L_{ave}) \times \Delta t} \times \text{Gravel Correction Factor}$$

Where,

$\Delta d = d_f - d_i$ (ft)

D = diameter of boring hole (ft)

d_b = depth to water bottom (ft)

L_{ave} = average wetted depth = $d_b - (d_i + d_f)/2$

Δt = time increment (hr)

d_i = initial level (ft)

d_f = final level (ft)

Gravel Correction Factor = 0.40

Q = gallons of sewage per square foot per day (gal/ft²/day)

This testing indicated satisfactory percolation rates in all tests. A summary of the testing is shown in Table 1. Detailed percolation test results are appended.

Table 1: Percolation rates from seepage pit tests

Test No.	Depth to bottom of test hole (ft.)	USCS Soil Classification	Percolation Rate (gal/ft ² /day)
B-01	40	SP, GW, SM	1.7
B-02	40.	SP, SM	3.6

A design percolation rate of 1.7 gallons per square feet per day is recommended for the project as a conservative measure based on the slower rates encountered in the final 30 minutes of testing. See field test data (Figure Nos. A-6 and A-7) and General Discussion (Section 7) for more details.

4. DISCUSSION OF RESULTS:

4.1 *Uniformity of Soil:* Our observation of the subsurface material indicates that the upper ±26 to 32 feet of the soil profile consists of fine to coarse poorly graded sand with gravel (SP) and gravel with sand (GW). Some difficulty in drilling the exploratory borings was encountered due to the density of the soil and presence of gravels and cobbles encountered. Below these deposits, fine to medium silty sand (SM) in a medium dense to dense condition was encountered to the bottoms of the borings. No groundwater or oxidation-reduction mottling was observed within our borings.

4.2 *Sources of Variability or Error:* There were no known sources of error.

4.3 *Interpretation of Results:* Based on the results of percolation testing in the area proposed for the seepage pits, the subject site is believed to be acceptable for installation of an on-site sewage disposal system that conforms to San Bernardino County DEHS requirements.

5. **DESIGN:**

5.1 *General Criteria:* The seepage pit disposal system for the site should be designed and constructed in accordance with San Bernardino County DEHS criteria and applicable portion of the Uniform Plumbing Code.

5.2 *Conversion of Percolation Rates To Design Rates:* Fixture Units provided by the design team were used to evaluate the minimum septic system capacity at this site. Based on the referenced project plans and discussions with STK, the planned fixture units for the new building are shown below:

Table 2: Fixture Units

Fixture	No. of Fixtures	Fixture Units/Fixture	Fixture Units 0
Water Closets	2	4	8
Lavatories	2	1	2
Two Compartment Sink	1	2	2
Service Sink	2	3	6
Floor Drain	2	2	4
Floor Sink	1	2	2
Safety Shower / Wash Station	1	2	2
Total Fixture Units			28

For 28 fixture units, a minimum septic tank capacity of 1,500 gallons is required per the 2016 California Plumbing Code, Table H 201.1(1). However, based on discussions with STK Architects, Inc., we understand the County plans to install a larger OWTS system with a 2,500 gallon septic tank.

Based on the results of our percolation testing a design percolation rate of 1.7 gallons per square foot of sidewall per day (gal/ft²/day) should be used for the septic system design. For a 2,500 gallon septic tank, a minimum of 78.2 vertical feet of seepage pit is required for 6-foot diameter seepage pits. This corresponds to a system utilizing three 6-ft. diameter seepage pits with 27 feet below the inlet.

6. **PLOT PER CURRENTLY ADOPTED UNIFORM PLUMBING CODE:**

A conceptual septic system plot plan is presented on Figure A-5.

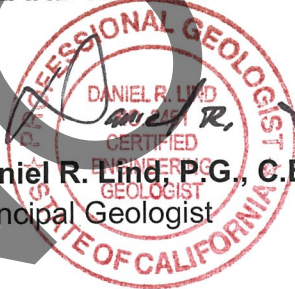
7. **GENERAL DISCUSSION AND CONCLUSIONS OR RECOMMENDATIONS:**

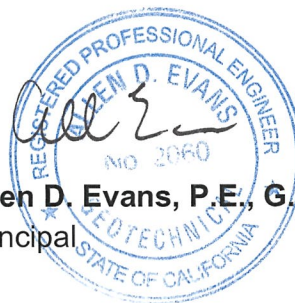
On the basis of the percolation testing and subsequent analysis, the use of seepage pits as a method of subsurface sewage effluent disposal will be feasible for the subject property. Our test results indicate seepage rates for the final 30 minutes of the testing of 1.7 gal/ft²/day for B-01 and 3.6 gal/ft²/day for B-02. Therefore, we recommend the use of the minimum seepage rate of 1.7 gallons per square foot per day for design as a conservative measure. For this project, we recommend that three (3) six-foot diameter seepage pits be installed to a depth of 27 feet below the inlet. A 100 percent expansion area is also shown on the plot plan.

The findings and recommendations provided in this report are based upon an interpolation of subsurface conditions between test and boring locations. The data obtained from the various points of observation and testing may only be representative of the condition at those specific locations. Therefore, conditions may be encountered during construction that appears to be different than those indicated herein. We cannot assume any responsibility for such unforeseen conditions, but should be notified if they occur in order to determine the necessity of revising our recommendations.

It has been our pleasure to be of service to you on this project. If there are any questions, please contact our office.

Respectfully,
INLAND FOUNDATION ENGINEERING, INC.


Daniel R. Lind
Daniel R. Lind, P.G., C.E.G.
Principal Geologist


Allen D. Evans
Allen D. Evans, P.E., G.E.
Principal

DRL:ADE:es
Distribution: Addressee

NOT FOR BID

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D2487)

PRIMARY DIVISIONS		GROUP SYMBOLS		SECONDARY DIVISIONS		
COARSE GRAINED SOILS	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN #4 SIEVE	CLEAN GRAVELS (LESS THAN) 5% FINES	GW		WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
			GP		POORLY GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GRAVEL WITH FINES	GM		SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	
			GC		CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES	
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN #4 SIEVE	CLEAN SANDS (LESS THAN) 5% FINES	SW		WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
			SP		POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES	
		SANDS WITH FINES	SM		SILTY SANDS, SAND-SILT MIXTURES	
			SC		CLAYEY SANDS, SAND-CLAY MIXTURES	
		FINE GRAINED SOILS	SILTS AND CLAYS LIQUID LIMIT IS LESS THAN 50	ML		INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS
				CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
OL				ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY		
SILTS AND CLAYS LIQUID LIMIT IS GREATER THAN 50	MH			INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDS OR SILTS, ELASTIC SILTS		
	CH			INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS		
	OH			ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS		
HIGHLY ORGANIC SOILS	PT		PEAT, MUCK AND OTHER HIGHLY ORGANIC SOILS			
TYPICAL FORMATIONAL MATERIALS	SANDSTONES	SS				
	SILTSTONES	SH				
	CLAYSTONES	CS				
	LIMESTONES	LS				
	SHALE	SL				

CONSISTENCY CRITERIA BASES ON FIELD TESTS

RELATIVE DENSITY – COARSE – GRAIN SOIL			CONSISTENCY – FINE-GRAIN SOIL		TORVANE	POCKET ** PENETROMETER	* NUMBER OF BLOWS OF 140 POUND HAMMER FALLING 30 INCHES TO DRIVE A 2 INCH O.D. (1 3/8 INCH I.D.) SPLIT BARREL SAMPLER (ASTM -1586 STANDARD PENETRATION TEST) ** UNCONFINED COMPRESSIVE STRENGTH IN TONS/SQ.FT. READ FROM POCKET PENETROMETER
RELATIVE DENSITY	SPT* (# BLOWS/FT)	RELATIVE DENSITY (%)	CONSISTENCY	SPT* (# BLOWS/FT)	UNDRAINED SHEAR STRENGTH (tsf)	UNCONFINED COMPRESSIVE STRENGTH (tsf)	
VERY LOOSE	<4	0-15	Very Soft	<2	<0.13	<0.25	
LOOSE	4-10	15-35	Soft	2-4	0.13-0.25	0.25-0.5	
MEDIUM DENSE	10-30	35-65	Medium Stiff	4-8	0.25-0.5	0.5-1.0	
DENSE	30-50	65-85	Stiff	8-15	0.5-1.0	1.0-2.0	
VERY DENSE	>50	85-100	Very Stiff	15-30	1.0-2.0	2.0-4.0	
			Hard	>30	>2.0	>4.0	

MOISTURE CONTENT

DESCRIPTION	FIELD TEST
DRY	Absence of moisture, dusty, dry to the touch
MOIST	Damp but no visible water
WET	Visible free water, usually soil is below water table

CEMENTATION

DESCRIPTION	FIELD TEST
Weakly	Crumbled or breaks with handling or slight finger pressure
Moderately	Crumbles or breaks with considerable finger pressure
Strongly	Will not crumble or break with finger pressure

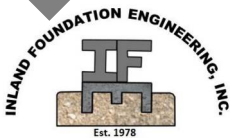
EXPLANATION OF LOGS

LOG OF BORING B-01

DRILLING RIG	<u>CME-75</u>	DATE DRILLED	<u>1/19/21</u>
DRILLING METHOD	<u>Rotary Auger</u>	HAMMER TYPE	<u>Auto-Trip</u>
LOGGED BY	<u>KC</u>	HAMMER WEIGHT	<u>140-lb.</u>
GROUND ELEVATION	<u>+/- 1338 ft</u>	HAMMER DROP	<u>30-inches</u>
		BORING DIAMETER	<u>8-inches</u>

DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS	BULK SAMPLE	DRIVE SAMPLE	SAMPLE TYPE	BLOW COUNTS /6"	MOISTURE (%)	DRY UNIT WT. (pcf)
0			<p>This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered and is representative of interpretations made during drilling. Contrasting data derived from laboratory analysis may not be reflected in these representations.</p>						
1			ASPHALT CONCRETE , (3.5 inches)			AU			
2			POORLY GRADED SAND with GRAVEL , fine- to coarse, with cobbles, olive-brown, slightly moist, dense, difficulty drilling.						
3									
4									
5									
6									
7									
8	SP								
9									
10									
11									
12									
13									
14									
15									
16				GRAVEL WITH SAND , fine- to coarse, olive-brown, slightly moist-to moist, dense, difficulty drilling.			AU		
17									
18									
19									
20									
21									
22									
23									
24	GW								
25									
26									
27									
28									
29									
30									
31			SILTY SAND , fine- to medium, with gravel, yellowish-brown, moist, medium dense to dense.			AU			
32									
33									
34									
35									
36									
37									
38									
39									
40									
41			End of boring at 50 feet. No groundwater encountered.						
42	SM								
43									
44									
45									
46									
47									
48									
49									
50									

IFE BORING - GINT STD US LAB GDT - 2/24/21 14:26 - P:\S\168\168-182 RANCHO YARD PERC\GINT.GPJ



Inland Foundation Engineering, Inc.

CLIENT	<u>STK Architecture</u>
PROJECT NAME	<u>SB County Rancho Yard</u>
PROJECT LOCATION	<u>12158 Baseline Road</u> <u>Rancho Cucamonga, CA</u>
PROJECT NUMBER	<u>S168-182</u>

FIGURE NO.

LOG OF BORING B-02

DRILLING RIG	<u>CME-75</u>	DATE DRILLED	<u>1/19/21</u>	HAMMER TYPE	<u>Auto-Trip</u>
DRILLING METHOD	<u>Rotary Auger</u>	HAMMER WEIGHT	<u>140-lb.</u>	HAMMER DROP	<u>30-inches</u>
LOGGED BY	<u>KC</u>	BORING DIAMETER	<u>8-inches</u>		
GROUND ELEVATION	<u>+/- 1338 ft</u>				

DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS	BULK SAMPLE	DRIVE SAMPLE	SAMPLE TYPE	BLOW COUNTS /6"	MOISTURE (%)	DRY UNIT WT. (pcf)
0			This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered and is representative of interpretations made during drilling. Contrasting data derived from laboratory analysis may not be reflected in these representations.						
1			ASPHALT CONCRETE , (3.5 inches)			AU			
2			POORLY GRADED SAND with GRAVEL , fine- to coarse, with cobbles, olive-brown, slightly moist- to moist, dense, difficulty drilling.						
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13	SP								
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26			SILTY SAND , fine- to medium, yellowish brown, moist, medium dense to dense.			AU			
27			End of Boring at 40 feet. No groundwater encountered.						
28									
29									
30									
31									
32									
33	SM								
34									
35									
36									
37									
38									
39									
40									

IFE BORING - GINT STD US LAB GDT - 2/24/21 14:26 - P:\S168\168-182 RANCHO YARD PERC\GINT.GPJ



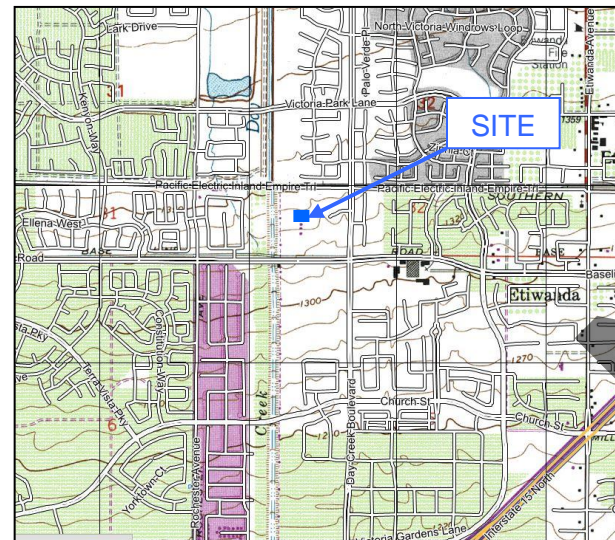
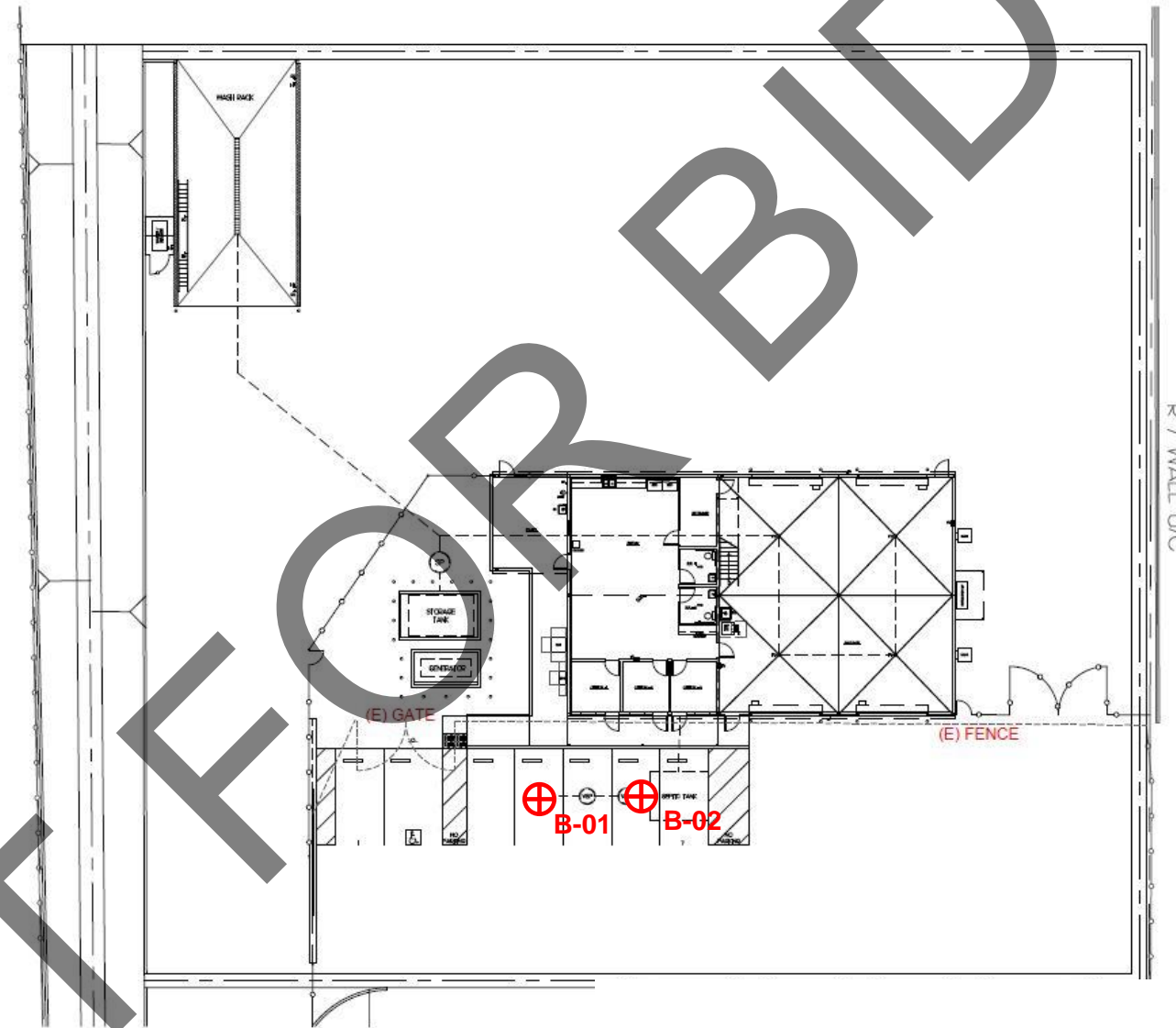
Inland Foundation Engineering, Inc.

CLIENT	<u>STK Architecture</u>
PROJECT NAME	<u>SB County Rancho Yard</u>
PROJECT LOCATION	<u>12158 Baseline Road</u> <u>Rancho Cucamonga, CA</u>
PROJECT NUMBER	<u>S168-182</u>

FIGURE NO.

A-3

SITE PLAN



Vicinity Map

NOT FOR BID

Base Map: Site Plan, 12158 Baseline Road,
 Rancho Cucamonga, CA, dated July, 2020,
 prepared by Engineering Resources of Southern
 California

⊕ **Approximate Location of Exploratory Boring & Percolation test**

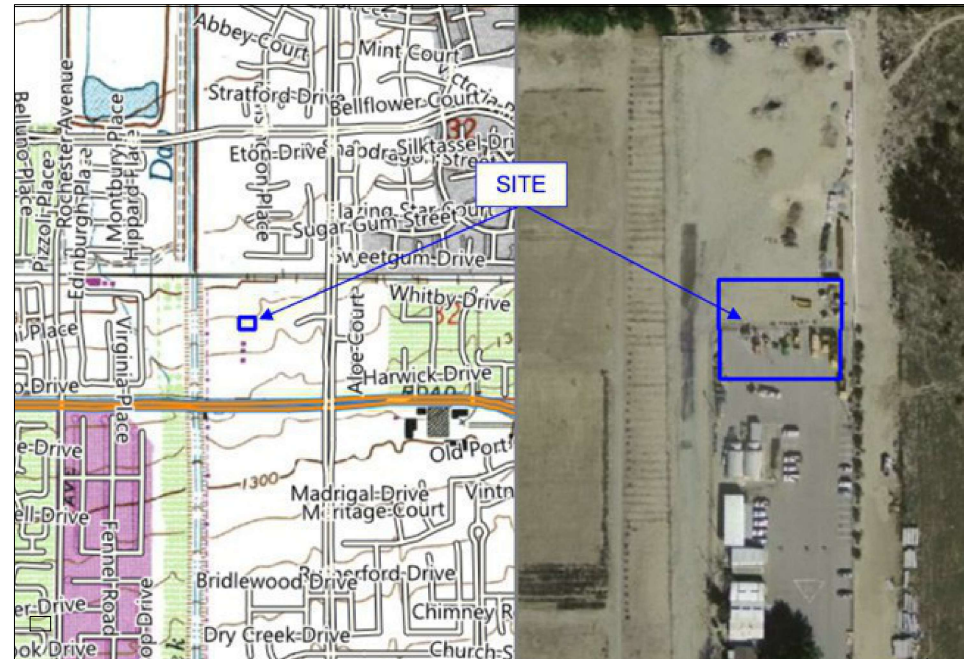
INLAND FOUNDATION ENGINEERING, INC. <i>Consulting Geotechnical Engineers and Geologists</i> www.inlandfoundation.com (951) 654-1555					
A-4	Percolation Testing SB Public Works Rancho Yard Building Rancho Cucamonga, California				
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Drawn By: KC</td> <td style="width: 50%;">Project No. S168-182</td> </tr> <tr> <td>Scale: 1" = ±40'</td> <td>Date: Jan. 2021</td> </tr> </table>	Drawn By: KC	Project No. S168-182	Scale: 1" = ±40'	Date: Jan. 2021
	Drawn By: KC	Project No. S168-182			
Scale: 1" = ±40'	Date: Jan. 2021				

ONSITE WASTEWATER TREATMENT SYSTEM DESIGN

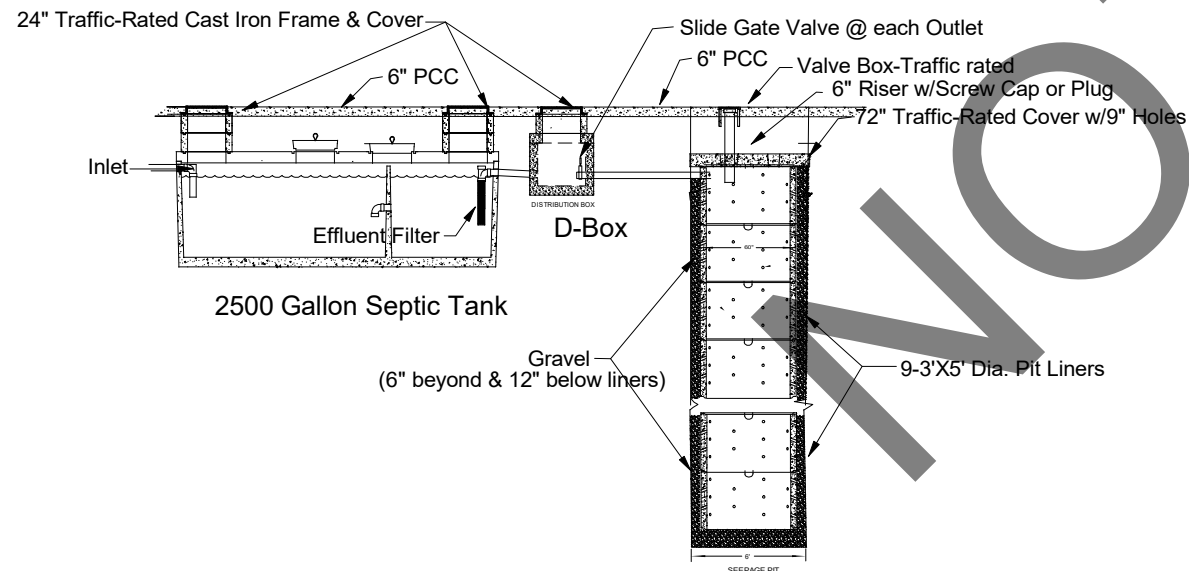
San Bernardino County Public Works
Rancho Yard - New Building

PREPARED FOR: STK ARCHITECTS
42095 Zevo Drive, Suite A15
Temecula, California 92590
(951) 296-9110

PROPERTY DESCRIPTION: 12158 Baseline Road
Rancho Cucamonga, California

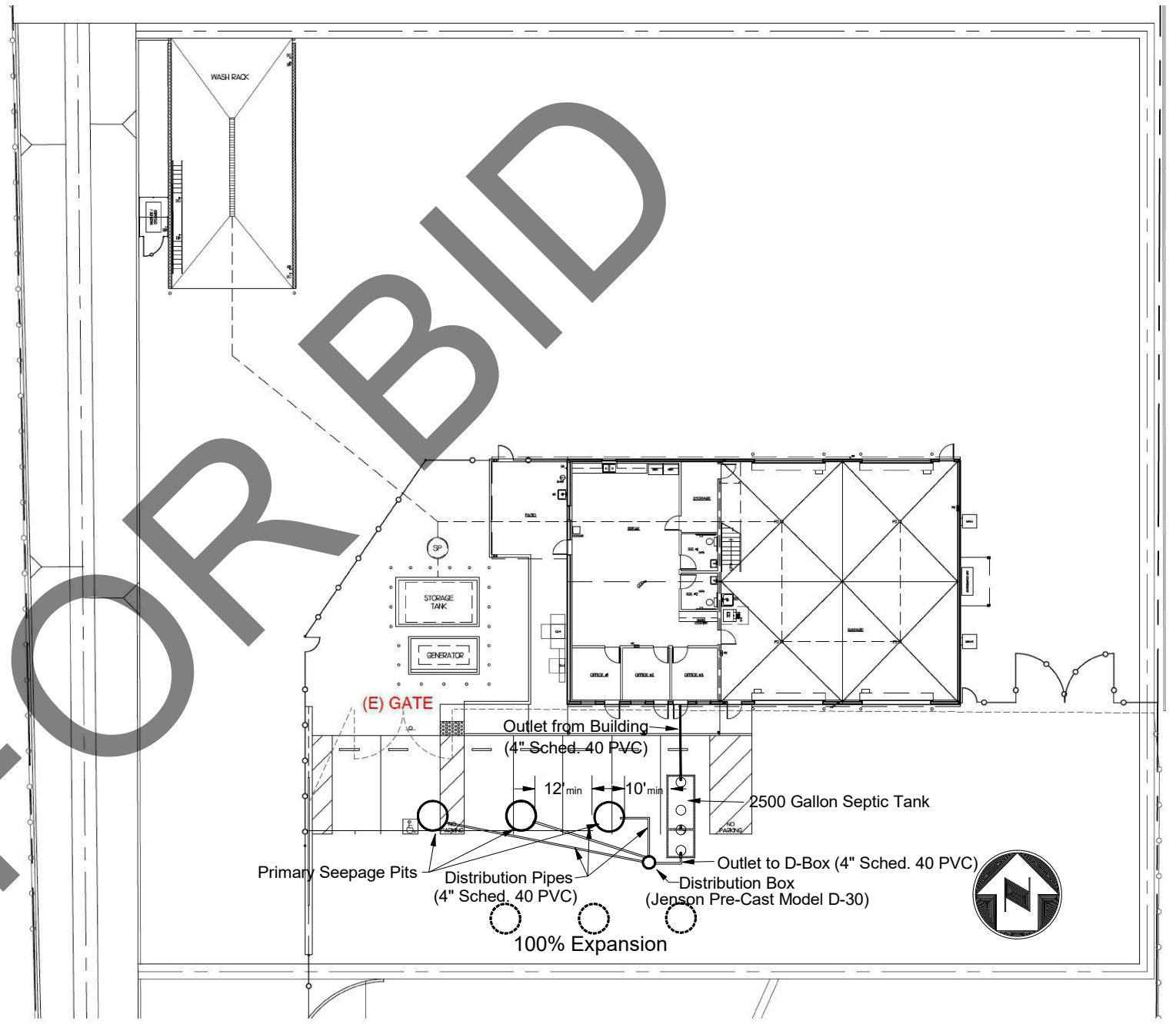


VICINITY MAP



SEPTIC TANK, DISTRIBUTION BOX, SEEPAGE PIT - TYPICAL PROFILE

PERCOLATION RATE: 1.7 Gallons/Square Foot/Day
 FIXTURE UNITS: 28
 SEPTIC TANK CAPACITY: 2500 Gallons
 NUMBER OF SEEPAGE PITS: 3
 SEEPAGE PIT DIAMETER: 6 Feet
 SEEPAGE PIT DEPTH: 27 Feet Below Inlet



SITE PLAN



1" = 30'

INLAND FOUNDATION ENGINEERING, INC,
 1310 South Santa Fe Avenue
 San Jacinto, California
 (951) 654-1555 FAX (951) 654-0551

Drawn By: L. Strahm

Project No. S168-182

Scale: As Shown

Date: February 2021

PERCOLATION TEST DATA SHEET – INFILTRATION TESTING

Project: <i>Ranchos Yard</i>		Project No.: <i>5168-182</i>		Date: <i>1-20-21</i>			
Test Hole No.: <i>B-01</i>		Tested By: <i>K.C.</i>					
Depth of Test Hole D_T : <i>40'</i>			USCS Soil Classification:				
Test Hole Dimensions (inches) <i>8" x 46"</i>			Length		Width		
Diameter (if round)= <i>8"</i>		Sides (if rectangular) =					
Sandy Soil Criteria Test*							
<i>1/19</i>							
Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.) FT	Final Depth to Water (in.) FT	Change in Water Level (in.) FT	Greater than or Equal to 6"? (Y/N)
1	<i>11:08:52</i>	<i>11:38:52</i>	30	<i>9.7'</i>	<i>17.7'</i>	<i>12.6</i>	<i>N/A</i>
2	<i>11:40:46</i>	<i>12:10:46</i>	30	<i>0</i>	<i>22.4</i>	<i>17.6</i>	<i>N/A</i>
3							
*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".							
<i>1/20</i>							
Trial No.	Start Time	Stop Time	Δt Time Interval, (min.)	D_o Initial Depth to Water (in.) FT	D_f Final Depth to Water (in.) FT	ΔD Change in Water Level (in.) FT	Percolation Rate (min./in.)
1	<i>9:52:12</i>	<i>9:22:12</i>	30	0.0	<i>16.95'</i>	<i>16.95'</i>	
2	<i>9:24:28</i>	<i>9:54:28</i>	30	0.0	<i>14.4'</i>	<i>14.4'</i>	
3	<i>9:55:41</i>	<i>10:25:41</i>	30	0.0	<i>13.6'</i>	<i>13.6'</i>	
4	<i>10:27:04</i>	<i>10:57:04</i>	30	0.0	<i>13.1'</i>	<i>13.1'</i>	
5	<i>11:01:45</i>	<i>11:31:45</i>	30	0.0	<i>13'</i>	<i>13.0'</i>	
6	<i>11:32:52</i>	<i>12:02:52</i>	30	0.0	<i>11.8</i>	<i>11.8'</i>	
7	<i>12:04:35</i>	<i>12:34:35</i>	30	0.0	<i>10.4</i>	<i>10.4'</i>	
8	<i>12:35:56</i>	<i>1:05:56</i>	30	0.0	<i>10.25</i>	<i>10.25'</i>	
9	<i>1:07:54</i>	<i>1:37:54</i>	30	0.0	<i>10.25</i>	<i>10.25'</i>	
10	<i>1:38:40</i>	<i>2:08:40</i>	30	0.0	<i>10.25</i>	<i>10.25'</i>	
11	<i>2:12:05</i>	<i>2:42:05</i>	30	4.0	<i>14.0</i>	<i>10.0'</i>	
12	<i>2:42:05</i>	<i>3:12:05</i>	30	14.0	<i>20.5</i>	<i>6.5'</i>	
13							
14							
15							
COMMENTS: <i>Gravel Pack settled 2 1/2 ft. 14' caved-in before gravel pack was placed: 35%.</i>							

Figure No. A-6

PERCOLATION TEST DATA SHEET – INFILTRATION TESTING

Project: <u>Kancho Road</u>		Project No.: <u>5168-182</u>		Date: <u>1-21-21</u>			
Test Hole No.: <u>B-62</u>		Tested By: <u>K.C.</u>					
Depth of Test Hole D_T : <u>40'</u>			USCS Soil Classification:				
Test Hole Dimensions (inches) <u>3"</u>			Length		Width		
Diameter (if round)=		Sides (if rectangular) =					
Sandy Soil Criteria Test*							
<u>1/19</u> Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.) <u>FT</u>	Final Depth to Water (in.) <u>FT</u>	Change in Water Level (in.) <u>FT</u>	Greater than or Equal to 6"? (Y/N)
1	<u>12:40:24</u>	<u>1:10:24</u>	<u>30</u>	<u>0</u>	<u>25.6</u>	<u>25.6</u>	<u>N/A</u>
2	<u>1:12:13</u>	<u>1:42:13</u>	<u>30</u>	<u>0</u>	<u>20.4</u>	<u>20.4</u>	<u>N/A</u>
3							
*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".							
<u>1/20</u> Trial No.	Start Time	Stop Time	Δt Time Interval, (min.)	D_o Initial Depth to Water (in.) <u>FT</u>	D_f Final Depth to Water (in.) <u>FT</u>	ΔD Change in Water Level (in.) <u>FT</u>	Percolation Rate (min./in.)
1	<u>8:57:15</u>	<u>9:27:15</u>	<u>30</u>	<u>0.0</u>	<u>23.7</u>	<u>23.7</u>	
2	<u>9:30:04</u>	<u>10:00:04</u>	<u>30</u>	<u>0.0</u>	<u>18.65</u>	<u>18.65</u>	
3	<u>10:02:11</u>	<u>10:32:11</u>	<u>30</u>	<u>0.0</u>	<u>18.6</u>	<u>18.6</u>	
4	<u>10:35:28</u>	<u>11:05:28</u>	<u>30</u>	<u>0.0</u>	<u>18.85</u>	<u>18.85</u>	
5	<u>11:07:24</u>	<u>11:37:24</u>	<u>30</u>	<u>0.0</u>	<u>18.6</u>	<u>18.6</u>	
6	<u>11:39:07</u>	<u>12:09:07</u>	<u>30</u>	<u>0.0</u>	<u>18.6</u>	<u>18.6</u>	
7	<u>12:11:12</u>	<u>12:41:12</u>	<u>30</u>	<u>0.0</u>	<u>18.7</u>	<u>18.7</u>	
8	<u>12:43:25</u>	<u>1:13:25</u>	<u>30</u>	<u>0.0</u>	<u>18.6</u>	<u>18.6</u>	
9	<u>1:15:21</u>	<u>1:45:21</u>	<u>30</u>	<u>0.0</u>	<u>19.05</u>	<u>19.05</u>	
10	<u>1:47:21</u>	<u>2:17:21</u>	<u>30</u>	<u>0.0</u>	<u>19.05</u>	<u>19.05</u>	
11	<u>2:22:53</u>	<u>2:52:53</u>	<u>30</u>	<u>4.0</u>	<u>20.1</u>	<u>20.1</u>	
12	<u>2:52:53</u>	<u>3:22:53</u>	<u>30</u>	<u>20.1</u>	<u>29.6</u>	<u>29.6</u>	
13							
14							
15							
COMMENTS: <u>Gravel Pack settled 1'2". 11 ft+ caved in before gravel pack was placed. 27.5%</u>							

Figure No. A-7

TU - TITLE SHEET

GRADING PLANS

- 1 of 3 - PRECISE GRADING PLAN - INDEX SHEET
2 of 3 - PRECISE GRADING PLAN
3 of 3 - PRECISE GRADING PLAN

SEPTIC SYSTEM

- D-1 - SEPTIC SYSTEM

LANDSCAPE

- L-1 - PLANTING PLAN
L-2 - IRRIGATION PLAN
L-3 - PLANTING AND IRRIGATION DETAILS AND SPECIFICATIONS

ARCHITECTURAL

- A10 - REFERENCE SITE PLAN & DETAILS
A11 - ENLARGED SITE PLANS & DETAILS
A12 - SITE DETAILS
A13 - SITE DETAILS
A14 - SITE DETAILS
A21 - FLOOR PLANS & DETAILS
A23 - SCHEDULES & DETAILS
A25 - REFLECTED CEILING PLANS
A26 - ROOF PLAN, SECTIONS & DETAILS
A32 - EXTERIOR ELEVATIONS & DETAILS
A41 - INTERIOR ELEVATIONS & DETAILS
A51 - INTERIOR ELEVATIONS & DETAILS

PLUMBING

- P01 - PLUMBING LEGEND NOTES & SCHEDULES
P02 - PLUMBING TITLE 24 COMPLIANCE DOCUMENTS
P11 - PLUMBING GROUND LEVEL
P12 - PLUMBING GROUND & MEZZANINE LEVELS
P13 - PLUMBING OVERALL & ENLARGED SITE PLANS
P21 - PLUMBING DETAILS
P22 - DUPLEX PUMP STATION & PUMP CUTSHEETS

MECHANICAL

- M01 - MECHANICAL LEGEND NOTES & SCHEDULES
M02 - MECHANICAL ENERGY COMPLIANCE DOCUMENTS
M03 - MECHANICAL ENERGY COMPLIANCE DOCUMENTS
M11 - MECHANICAL GROUND & MEZZANINE LEVELS
M21 - MECHANICAL DETAILS

ELECTRICAL

- E01 - ELECTRICAL LEGENDS AND NOTES
FA01 - FIRE ALARM LEGENDS AND NOTES
FA02 - FIRE ALARM RISER DIAGRAM
E02 - LUMINAIRE SCHEDULE
E03 - LIGHTING CONTROL LAYOUT
E04 - LIGHTING CONTROL DETAILS
E05 - SINGLE LINE DIAGRAM
E06 - TITLE 24 COMPLIANCE DOCUMENTS (PRESCRIPTIVE)
E07 - TITLE 24 COMPLIANCE DOCUMENTS (PRESCRIPTIVE)
E11 - ELECTRICAL DEMOLITION AND REMODEL UTILITY SITE PLANS
E12 - ELECTRICAL REMODEL SITE PLAN
E13 - ELECTRICAL SITE PHOTOMETRY PLAN
E21 - POWER AND SIGNAL GROUND AND MEZZANINE LEVELS
E31 - LIGHTING GROUND AND MEZZANINE LEVELS
E32 - ELECTRICAL INTERIOR PHOTOMETRY & EGRESS PLAN
E41 - ENLARGED ELECTRICAL PLANS
E51 - ELECTRICAL DETAILS

SAN BERNARDINO COUNTY
PUBLIC WORKS DEPARTMENT:
RANCHO YARD NEW BUILDING

PROJECT □ 1010-0692
CIP □ 19-050
CAFM □ ET100X

12158 BASELINE ROAD
RANCHO CUCAMONGA, CA 91739

PROJECT TEAM

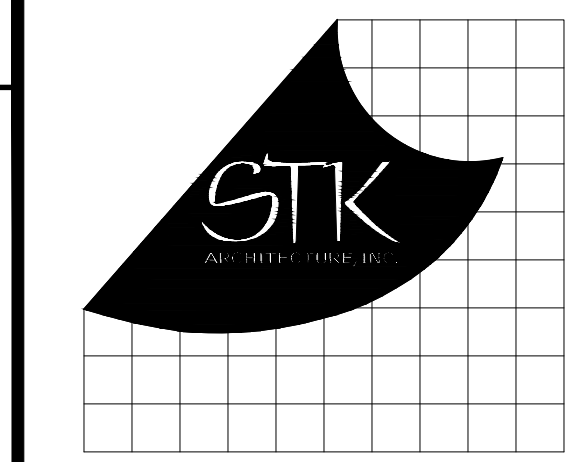
OWNER
SAN BERNARDINO COUNTY
ARCHITECTURE AND ENGINEERING DEPT.
DANI FOX - PROJECT MANAGER III
385 N. ARROWHEAD AVE, THIRD FLOOR
SAN BERNARDINO, CA 92415
PHONE: (909) 387-5000

ARCHITECTURAL
STK ARCHITECTURE, INC.
TONY FINALDI, ARCHITECT
42095 ZEVO DR., SUITE A15
TEMECULA, CA 92590
PHONE: (951) 296-9110
FAX: (951) 296-6079

CIVIL ENGINEER
ERSC REDLANDS LOCATION
MATT BRUDIN, P.E. / PRINCIPAL
1861 W REDLANDS BLVD.
REDLANDS, CA 92373
(909) 890-1255
(909) 890-0995 FAX

LANDSCAPE ARCHITECT
ALHAMBRA GROUP
VINCE DI DONATO
41635 ENTERPRISE CIRCLE N, STE. C
TEMECULA, CA 92590
(951) 296-6802
(951) 296-6803 FAX

MPE ENGINEER
DESIGN WEST ENGINEERING
ADRIAN JACQUEZ
1845 BUSINESS CENTER DR., SUITE 215
SAN BERNARDINO, CA 92408
PHONE: (909) 890-3700
FAX: (909) 890-3770



CONSULTANT:

PROJECT ADMINISTERED BY:
COUNTY OF
SAN BERNARDINO
REAL ESTATE SERVICES
DEPARTMENT -
PROJECT MANAGEMENT
DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:

PUBLIC WORKS
DEPARTMENT:
RANCHO YARD NEW
BUILDING

PROJECT # 1010-0692

CIP # 19-050

CAFM # ET100X

1258 BASE LINE ROAD
RANCHO CUCAMONGA,
CA 91739

ISSUE INFORMATION:

DATE: INFORMATION:

SHEET INFORMATION:

STK PROJECT NO.: 374-134-20

SCALE: AS NOTED

DATE: FEBRUARY 2021

PLOT DATE:

DRAWING NAME:

SEAL:

SHEET TITLE:

TITLE SHEET

SHEET NO.:

T1.1

THE GENERAL BUILDING CONTRACTOR SHALL SUBMIT TO THE COUNTY OF SAN BERNARDINO DESIGN & CONSTRUCTION DEPARTMENT THE FOLLOWING DOCUMENTS FOR REVIEW AND APPROVAL PRIOR TO OBTAINING BUILDING PERMIT:

- 1. PROVIDE PROJECT SIGN PER SPECIFICATIONS
2. COMPLY W/ C.B.C. SECTION 3303.7 - 'PEDESTRIAN PROTECTION' DURING CONSTRUCTION.
3. GENERAL CONTRACTOR TO PROVIDE ALL BACKING/FRAMING AS NECESSARY FOR LIGHTS, SIGNS, GRAB BAR, ETC.
4. DEFERRED SUBMITTAL / SEPARATE PERMITS
THE FOLLOWING ARE UNDER DEFERRED SUBMITTAL/SEPARATE PERMITS (TO BE OBTAINED BY THE GENERAL CONTRACTOR):
- PREFABRICATED METAL SHOP BUILDING & COMPONENTS
- SITE CMU WALL / RETAINING WALL
SUBMITTAL DOCUMENTS (PLANS & CALCULATIONS) FOR DEFERRED ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
5. ELECTRICAL CONDUITS IN COMMERCIAL BUILDINGS TO BE BURIED 6" BELOW CONCRETE SLAB. (T.M.C. 15.04.050(C))
6. VERTICAL GLAZING SHALL HAVE U-FACTORS PER NFRC 100-SB OR DEFAULT VALUES PER APPENDIX I OR ACM MANUAL. (CEC EXCEPTION TO 160A) 2)
7. REQUIRED SPECIAL INSPECTIONS
THE FOLLOWING SPECIAL INSPECTIONS PER 2016 C.B.C. ARE REQUIRED:
-- STRUCTURAL CONCRETE OVER 2500 P.S.I.
-- FIELD WELDING.
-- HIGH-STRENGTH BOLTS.
-- EXPANSION EPOXY ANCHORS.
8. NO HAZARDOUS MATERIALS ARE TO BE STORED OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES IN U.B.C. TABLES 3-D & 3-E.
9. PROVIDE A CONSTRUCTION WASTE MANAGEMENT PLAN AND DOCUMENTATION WHICH COMPLIES WITH CGSC 5.4082. REDUCE CONSTRUCTION WASTE BY RECYCLING OR SALVAGING FOR REUSE A MINIMUM OF 20% OF CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CGSC 5.4083
10. THE FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES.
A. THE IMPROVEMENTS SHALL BE STAGED TO ALLOW INGRESS & EGRESS AT ALL TIMES.
B. THE WORK ON THE EXTERIOR SHALL BE MADE AS DUST FREE & ODOR FREE AS POSSIBLE AND SHALL NOT PREVENT THE STAFF FROM THEIR REGULAR OPERATIONS.
C. CONTRACTOR SHALL SUBMIT IN WRITING A WRITTEN METHOD OF PROCEDURE AT THE PRE-CONSTRUCTION MEETING ADDRESSING THE ABOVE CONCERNS.
11. GENERAL CONTRACTOR TO PROVIDE TEMPORARY SAFETY BARRIER OR FENCING FOR THE DURATION OF THE PROJECT AS REQUIRED AT NO ADDED COST TO THE OWNER.
12. GENERAL CONTRACTOR SHALL ENGINEER & CONSTRUCT ALL FOUNDATIONS REQUIRED BY THE PREFABRICATED METAL BUILDING COMPANY. CONTRACTOR SHALL PROVIDE ENGINEERED & WET STAMPED SHOP DRAWINGS FOR THE ENTIRE STRUCTURE, INCLUDING THE FOUNDATIONS & MEZZANINE.

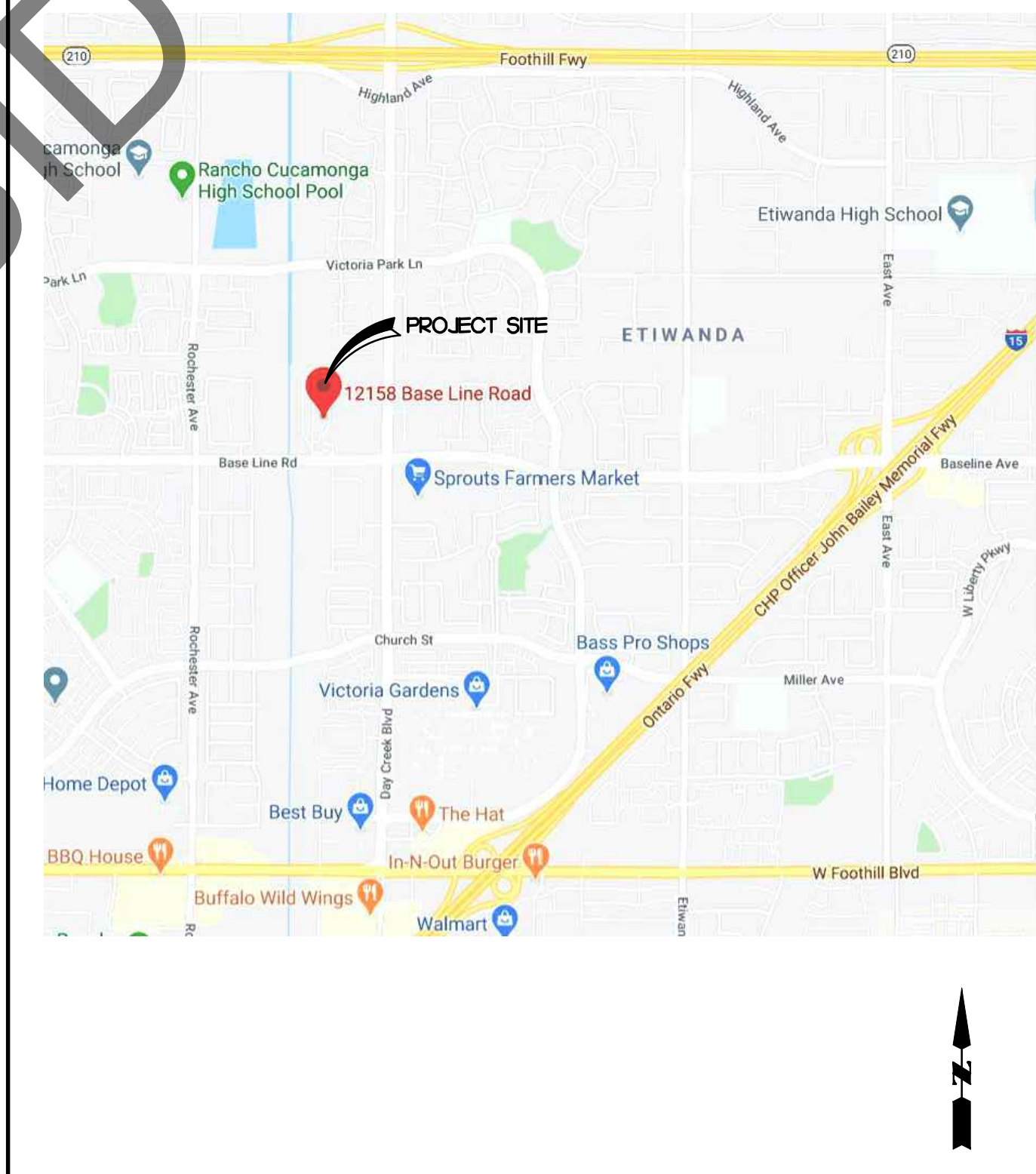
INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.

ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTION 2602 AND 707 OF THE CBC.

ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CALKED, GASKETED, OR WEATHERSTRIPPED.

SITE CONSTRUCTED DOORS, WINDOWS AND SKYLIGHTS SHALL BE CALKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHER STRIPPED EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS.

MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER PER 2-9369(Q) AFTER JULY 1, 1993. MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES. ALSO ALL OVER-HEAD DOORS OF APPARATUS ROOMS PROVIDE CERTIFICATES OF COMPLIANCE FOR DOORS, WINDOWS & INSULATION.



TITLE 24 MANDATORY MEASURES

TOTAL PARKING PROVIDED: 7 STALLS

STANDARD: 6 STALLS

ACCESSIBLE REQUIRED: 1 STALL

ACCESSIBLE PROVIDED: 1 STALL

VICINITY MAP

N.T.S.

ASSESSOR'S PARCEL NUMBERS: 1089-031-39-0000
1089-031-39-0000

OFFICE
OCCUPANCY GROUP: BI
TYPE OF CONSTRUCTION: V-B
SPRINKLERED (?): NO
STORIES: 1
HEIGHT: 24'-2"
BASIC ALLOWABLE FLOOR AREA: 7,000 S.F.
ACTUAL FLOOR AREA: 1,550 S.F. < 7,000 S.F. (OK)

GARAGE
OCCUPANCY GROUP: SI
TYPE OF CONSTRUCTION: V-B
SPRINKLERED (?): NO
STORIES: 1
HEIGHT: 24'-2"
BASIC ALLOWABLE FLOOR AREA: 17,500 S.F.
FIRST FLOOR AREA: 2,450 S.F.
SECOND FLOOR MEZZANINE AREA: 1,550 S.F.
ACTUAL FLOOR AREA: 4,000 S.F. < 17,500 F.S. (OK)

TOTAL FLOOR AREA: 4,000 SF.

PROJECT DESCRIPTION

LIST OF APPLICABLE CODES

- ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED:
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2018 NATIONAL ELECTRICAL CODE)
2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
2019 CALIFORNIA ENERGY CODE
2019 CALIFORNIA FIRE CODE
AMERICANS WITH DISABILITIES ACT 1990 WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2010 REVISIONS TO TITLE II

SHEET INDEX

NOTES TO GENERAL CONTRACTOR

PARKING TABULATION

LEGAL DESCRIPTION

CODE ANALYSIS

GRADING NOTES

- A grading permit shall be obtained from the City and the grading inspector shall be notified 24 hours prior to the start of any grading.
- Clearing and grubbing, including removal of existing structure, footings, foundations, rubble, trees and root systems, other vegetation, debris, etc., shall be completed to the satisfaction of the Geotechnical Engineer prior to the start of grading operations.
- Excavation shall then be completed as shown on the approved plans.
- If exporting 50 cubic yards or more of soil, the applicant shall provide the location where the soil is to be deposited along with a letter of acceptance from the property owner prior to grading plan approval. If the site is located within the City of Rancho Cucamonga, a stockpile plan and permit are required.
- The exposed soils shall then be inspected by the Geotechnical Engineer. Additional over excavation shall be made in accordance with the Geotechnical Engineer's recommendation and as contained in the Soils Report.
- The exposed soils shall then be scarified to a minimum depth of 6 inches, brought to proper moisture content and compacted to at least 90% of the maximum density, as determined by Appendix Section J107.5 of the latest California Building Code. Equivalent compaction can be obtained by methods specified by the Geotechnical Engineer.
- Prior to importing soil, the grading contractor shall notify the Geotechnical Engineer not less than 72 hours in advance, so that each proposed import source can be sampled, tested, and approved prior to delivery for use on the site.
- Proper compaction for the entire project including the backfill of utility trenches, etc. shall be verified by the Geotechnical Engineer. He shall prepare a compaction report, which shall be submitted to and approved by the City prior to the issuance of a building permit.
- Pad certification for elevation of all pads within the project shall be submitted to the Building Inspector prior to any concrete pouring. Pad certification can be by either one approved black-line-as-built grading and drainage plan or in letter format showing the design and as-built pad elevations shown on the approved grading and drainage plan. Either shall be sealed by a Civil Engineer licensed in the State of California.
- Certificates of final lot grading are to be submitted the Engineering Services Department prior to final building inspection.
- Final approval includes the construction of all improvements shown on the approved plan, including drainage facilities, drainage patterns, walls, curbs, asphalt pavement, buildings, etc. All items shall be constructed to the line and grade shown on the approved plans.
- An as-graded grading plan and certification of compliance shall be submitted to the Engineering Services Department prior to release of grading bond and prior to final grading inspection. The permittee shall provide a copy of as-built plans to the City for a permanent record at the end of the approved grading work.
- A Certificate of Occupancy (C of O) and/or final electrical clearance for any building will not be released until all grading, drainage WQMP (Water Quality Management Plan) Best Management Practices improvements are completed and approved by the City. In addition, the Engineer's As-Built Certificate must be wet signed and sealed on the WQMP BMP Exhibit. Three sets of exhibits must be submitted to the City Engineer, or designee, for review. The City of Rancho Cucamonga will submit one original to the State Water Board and will submit a second set to the West Valley Mosquito and Vector Control District.

B. RELATED REQUIREMENTS:

- The City only approves the Engineering Design in scope and not in detail on these plans. The City does not verify construction quantities on these plans. Approval of the plans are for permit purposes only and shall not prevent the city from requiring correction of errors in the plans where such errors are subsequently found to be in violation of any law, ordinance, health, safety, or other design issues. City acceptance of plans does not relieve the developer from responsibilities from the correction of errors and omissions discovered during construction.
- All Concrete (PCC) water carrying devices with slopes less than 0.5% shall be water tested prior to final inspection and acceptance. Any residual ponding in evidence at time of inspection shall be cause for removal and replacement.
- Debris, mud, silt, etc. shall not be deposited on public or other property at any time during construction. Any such deposition shall be removed immediately by the Contractor.
- All drainage protective devices such as swales, interceptor ditches, pipes, protective berms, barrier walls, concrete channels, or other measures designed to protect adjacent buildings or property form storm runoff must be completed prior to building construction.
- The Engineer of Record assumes responsibility for grading and inspection in accordance with Appendix Section J 105 of the latest California Building Code.
- Equestrian Trails shall be surfaced with a 4-inch thick section composed of 95% decomposed granite (1/8" to 3/8" diameter) and 5% coarse sand compacted to 90%. A compaction report certified by a Soils Engineer shall be submitted to and approved by the City prior to project final approval.
- Floodwater conveyance shall be maintained at all times during construction. The work shall be phased so that newly constructed facilities are fully operational prior to existing facilities being removed.
- A Grading Plan (City approved) shall be on the job site at all times. Deviations from the plan shall be preceded by an approved plan revision. Upon request of the Building Inspector, the required plan and revisions shall be promptly submitted to the City Engineer, or designee, for review.
- Protection of Adjacent Property. During grading operations, the permittee shall be responsible for the prevention of damage to adjacent property and no person shall excavate on land sufficiently close to the property line to endanger any adjoining public street, a sidewalk, alley, or other public or private property without supporting and protecting such property from settling, cracking, or other damage which might result.

PRIVATE ENGINEER'S NOTE TO CONTRACTOR

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 DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE DRAWINGS.

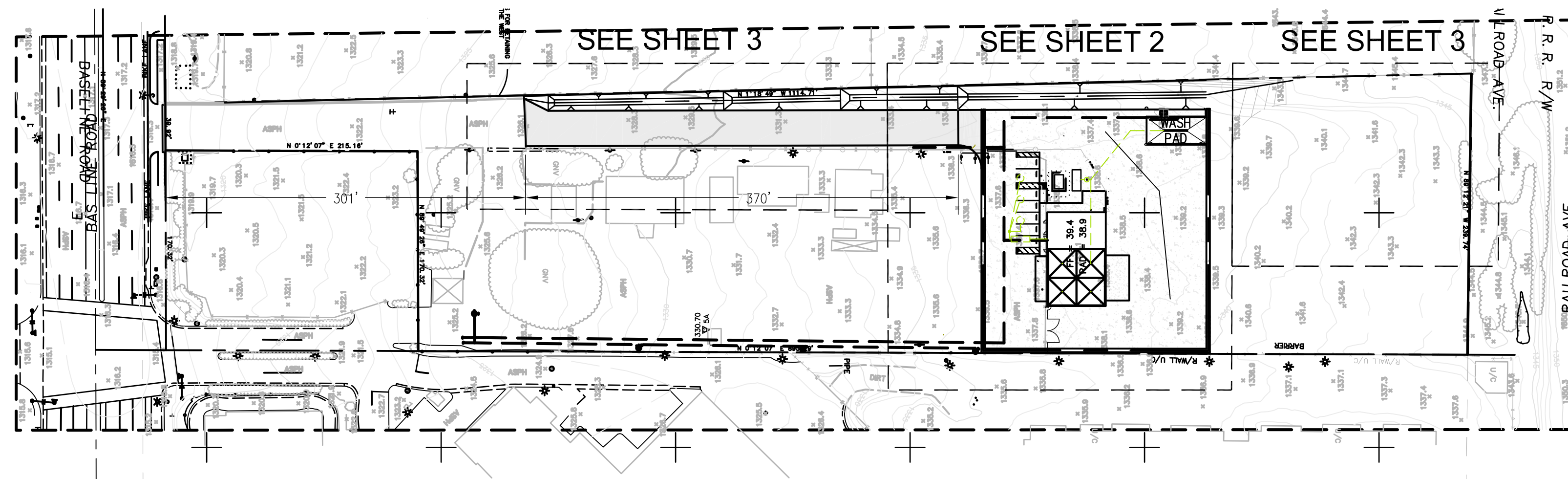
CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE 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.

CERTIFICATES

- I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND THAT IT SUBSTANTIALLY CONFORMS TO THE SOILS REPORT NO. A9816-99-01, DATED, MARCH 8, 2019. PREPARED BY: GEOCON WEST, INC.
- JOHN STAPLETON
PRINTED NAME
REGISTRATION NUMBER
- SIGNATURE
- IN REFERENCE TO NPDES REQUIREMENTS THE UNDERSIGNED CERTIFIES ONE OF THE FOLLOWING:
 - A NOTICE OF INTENT (NOI) IS NOT REQUIRED OF THIS DEVELOPMENT.
 - A NOTICE OF INTENT (NOI) HAS BEEN FILED AND THE WQID NUMBER IS: XXXXXX
- JOHN SMITH
PRINTED NAME
CIVIL ENGINEER
- SIGNATURE

Underground Service Alert
Call: TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRECISE GRADING PLAN SAN BERNARDINO FLOOD CONTROL APN 1089-03-13 & 39



TOPOGRAPHY

JD COLE & ASSOCIATES, INC.
LAND SURVEYING
11066 RAMONA ST.
YUCAIPA, CA 92389
PHONE: (909) 797-2074

ARCHITECT

STK ARCHITECTS, INC.
42095 ZEVO DR., A-15
TEMECULA, CA 92590
CONTACT: J. SAENG NAMVONG
PHONE: (951) 296-9110

WATER/ SEWER

CUCAMONGA VALLEY WATER DISTRICT
10440 ASHFORD ST.
RANCHO CUCAMONGA, CA 91730
CONTACT ED HILLS
PHONE: (909) 987-2591

CABLE

CHARTER CABLEVISION
6880 VIEW PARK COURT
RIVERSIDE, CA 92503
CONTACT JOHN SIMPSON
PHONE: (909) 343-5165

ESTIMATED GRADING CONSTRUCTION DATES

START: OCTOBER 2020
FINISH: NOVEMBER 2020

OWNER/DEVELOPER

SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
825 E. 3rd STREET
SAN BERNARDINO, CA 92415
CONTACT ERWIN FOGERSON
PHONE: (909) 387-7363

CIVIL ENGINEER

ENGINEERING RESOURCES OF SOUTHERN CALIFORNIA, INC.
1861 W. REDLANDS BLVD.
REDLANDS, CA 92373
CONTACT MATT BRUDIN
PHONE: (909) 890-1255

FIBER OPTICS

SPRINT TRANSMISSION DEPARTMENT
202 SYCAMORE AVENUE
RIALTO, CA 92376
CONTACT MATT BRUDIN
PHONE: (909) 873-8022

BASIS OF BEARINGS

WEST LINE - SECTION 32
N 0d 12' 05" E

SITE DATA

GROSS ACREAGE= 250,257 S.F. (5.7 ACRES)
AREA OF DISTURBANCE = 45,570 S.F. (1.05 ACRES)

SOILS ENGINEER

GEOCON WEST, INC.
2015 W. PARK AVE., SUITE 1
REDLANDS, CA 92373
CONTACT JOHN STAPLETON
PHONE: (909) 894-2175
REFERENCE REPORT:
No. A9816-99-01
PREPARED MARCH 8, 2019

TELEPHONE

AT&T
870 MOUNTAIN AVENUE
UPLAND, CA 91786
PHONE: (909) 898-1204

BENCH MARK

BENCHMARK NUMBER: 10054
ELEV: 1328.075'

LEGAL DESCRIPTION

APN: 1089-031-13 & 39

RAW CUT / FILL QUANTITIES

CUT: 1450 CU. YDS.
FILL: 1450 CU. YDS.

NOTE

SEE ARCHITECTURAL AND LANDSCAPE ARCHITECTS PLANS FOR FENCE AND GATE DETAILS.



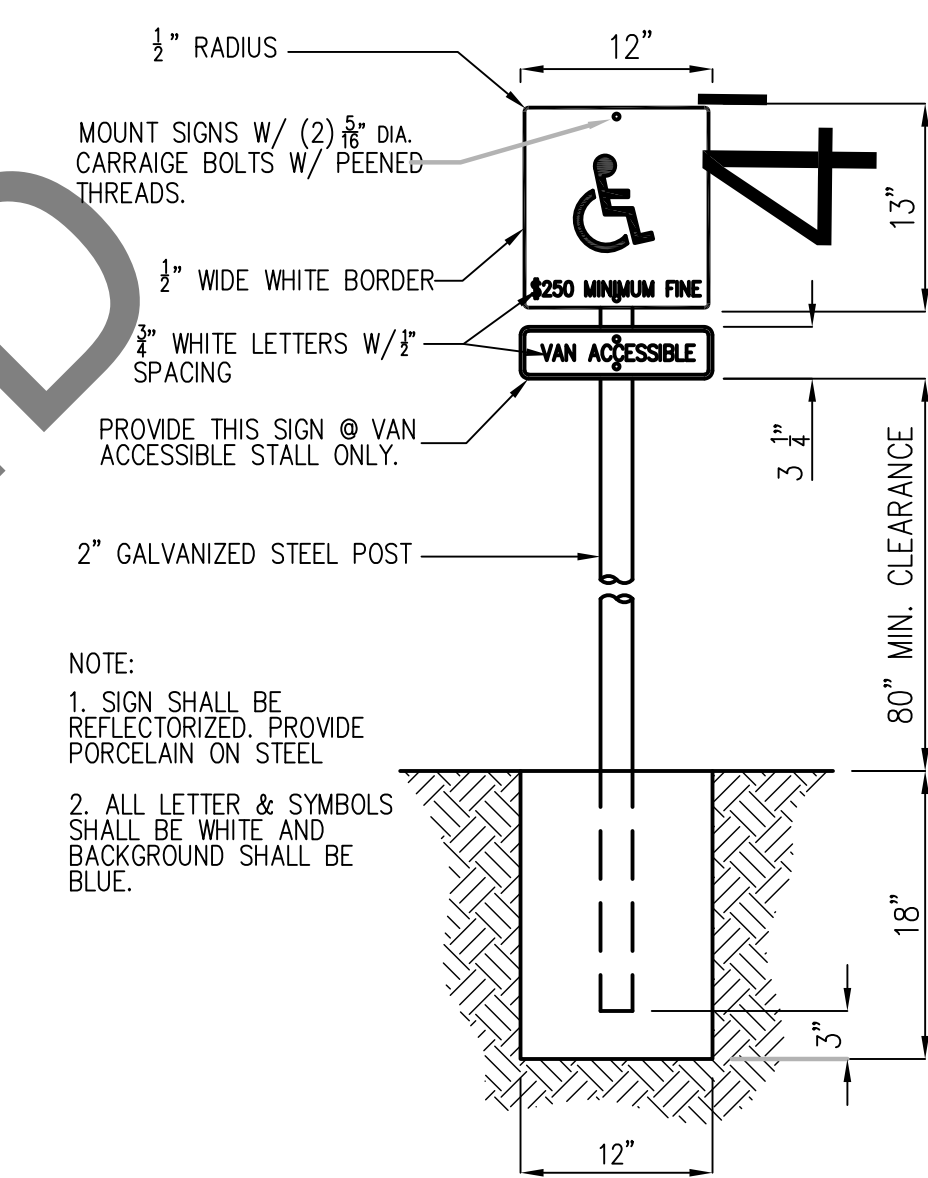
VICINITY MAP

NOT TO SCALE

CONSTRUCTION NOTES

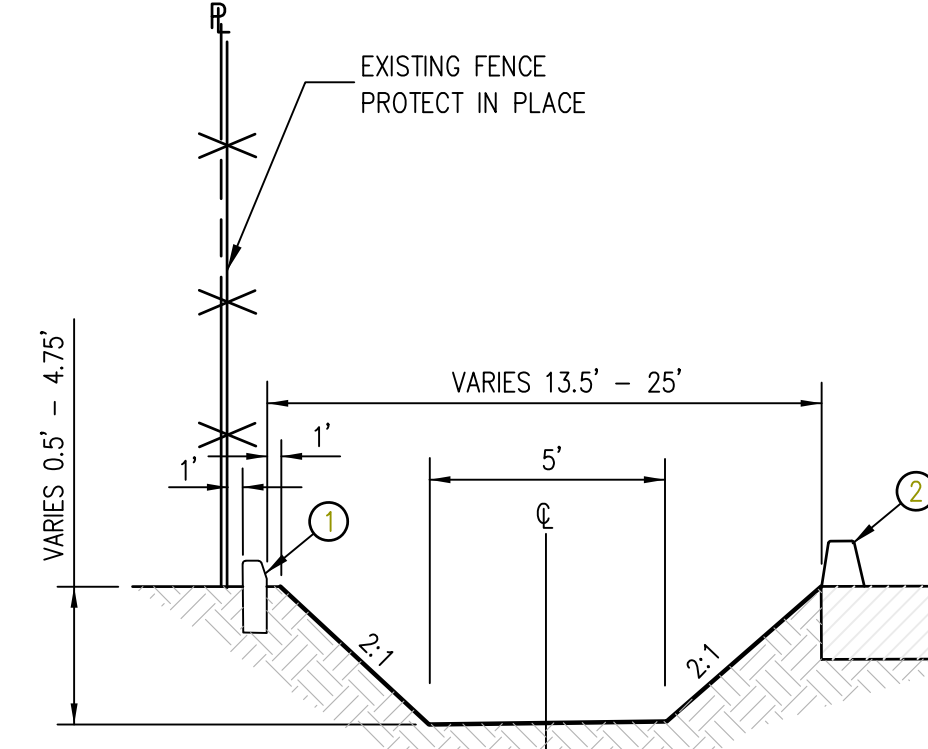
- CONSTRUCT PCC 6" CURB ONLY PER APWA STD. NO. C-1 OR EQUIV.
- CONSTRUCT 6" AC BERM PER APWA STD. DC OR EQUIV. WITH CURB CUTS PER DETAIL THIS SHEET.
- CONSTRUCT 3' WIDE CROSS GUTTER PER DETAIL THIS SHEET.
- CONSTRUCT 4" THK. MIN. AC OVER 7" AB PER SOILS REPORT
- CONSTRUCT 5" THK. CONC. W/ #3'S @ 18" O.C.
- CONSTRUCT SIDEWALK PER SBC STD. 109.
- INSTALL 6" H. BLOCK WALL PER SAN BERNARDINO COUNTY TRANS. DEPT. STD. 301 ALONG REAR PROPERTY LINE. SEE DETAIL SHT. 2. PER SEPARATE SUBMITTAL AND PERMIT BY CONTRACTOR.
- REMOVE EXISTING PAVEMENT, CURB, GUTTER OR FENCING
- INSTALL 12" X 20" L. ZURN # Z882 TRENCH DRAIN WITH TRAFFIC RATED GRATE OR EQUAL
- SAWCUT & JOIN EXISTING PAVEMENT
- 4" DIA. PVC - SDR 35 PIPE - SEWER DESIGN PER SEPARATE PLAN
- NOT USED
- NOT USED
- INSTALL BOLLARD PER DETAIL THIS SHEET.
- 2" DIA PVC - WATER DESIGN PER SEPARATE PLAN
- 8" DIA FIRE SERVICE LINE PER SEPARATE PLAN.
- 1/2 TON RIP-RAP 2' THK.
- NOT USED
- PROPOSED FIRE HYDRANT
- 1" DIA PVC - WATER DESIGN PER SEPARATE PLAN
- INSTALL ACCESSIBLE PARKING SIGN PER DETAIL THIS SHEET.
- PARKING STALLS - SEE DETAIL THIS SHEET.
- TRUNCATED DOMES - PER DETAIL -SHEET 2.
- ACCESSIBLE PARKING EMBLEM - PER DETAIL THIS SHEET.
- CONCRETE WHEEL STOP - PER DETAIL SHEET 2.

QUANTITIES



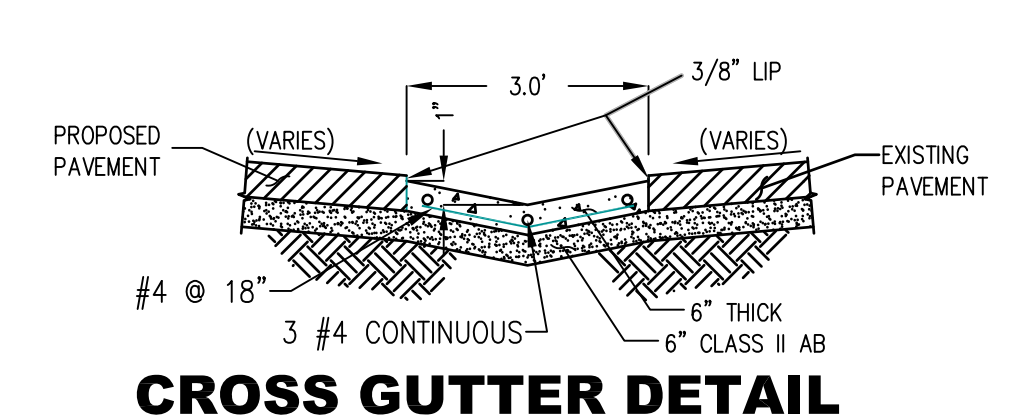
ACCESSIBLE PARKING SIGN

NOT TO SCALE



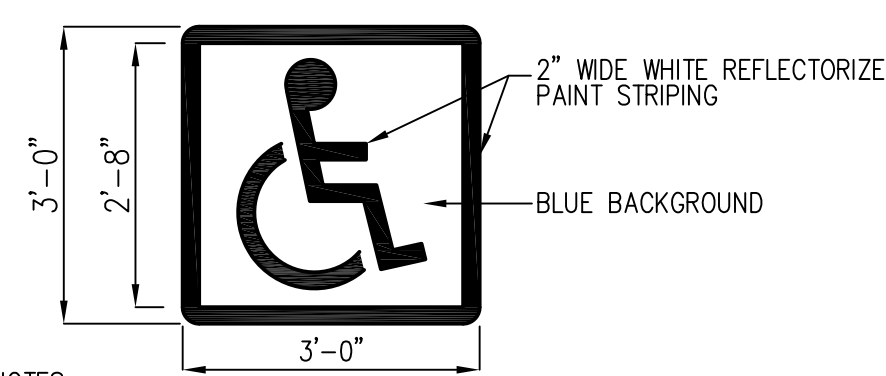
SECTION B-B

NOT TO SCALE



CROSS GUTTER DETAIL

NOT TO SCALE



- NOTES:
- STENCIL ONE SYMBOL ONTO PARKING SURFACE IN EACH ACCESSIBLE STALL
 - LOCATE PER ACCESSIBLE PARKING STALL DETAIL(S)
 - ALL LINES 2" WIDE PAINTED ON WHITE OR BLUE BACKGROUND.

ACCESSIBLE PARKING EMBLEM

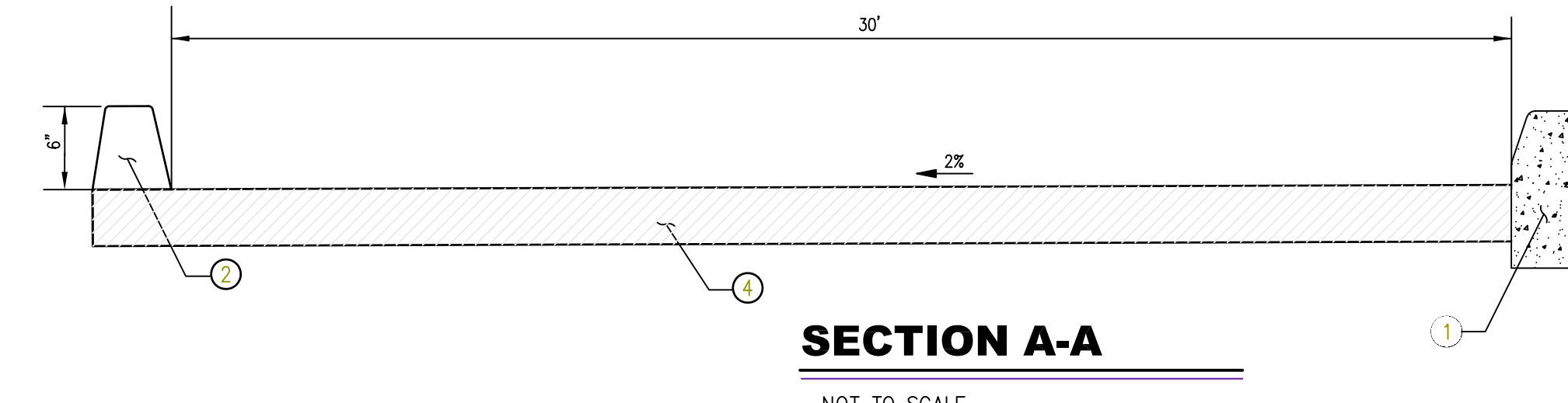
NOT TO SCALE

LEGEND

---	PROPERTY LINE	FL	FLOW LINE
---	PROPOSED CURB	FS	FINISH SURFACE
---	PROPOSED CROSS GUTTER	HP	HIGH POINT
---	SIDEWALK	LP	LOW POINT
---	ASPHALT CONCRETE PAVING	TC	TOP OF CURB
---	CONCRETE PAVING	TS	TOP OF SLOPE
---	DRAINAGE SLOPE & DIRECTION	X,XX	ELEVATION
---	ADA PATH OF TRAVEL	(XXX)	(EXISTING ELEVATION)

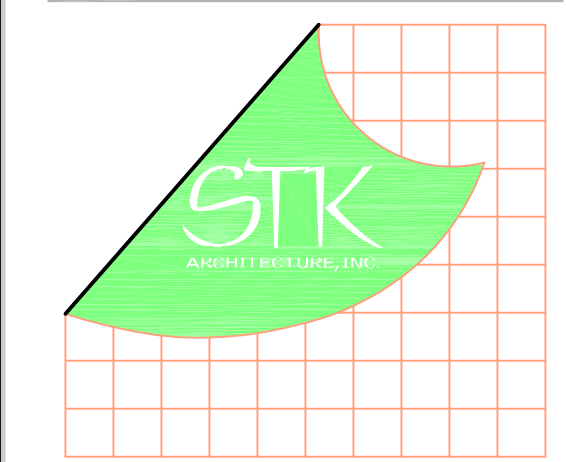
INDEX OF SHEETS

SHEET 1 TITLE SHEET
SHEET 2 GRADING PLAN
SHEET 3 GRADING PLAN



SECTION A-A

NOT TO SCALE



CONSULTANT:



1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
COUNTY OF SAN BERNARDINO
REAL ESTATE SERVICES
DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
PUBLIC WORKS DEPARTMENT:
RANCHO YARD NEW BUILDING

PROJECT # 1010-0692
CIP # 19-050
CAF# # ET100X

12158 BASELINE ROAD
RANCHO CUCAMONGA, CA 91739

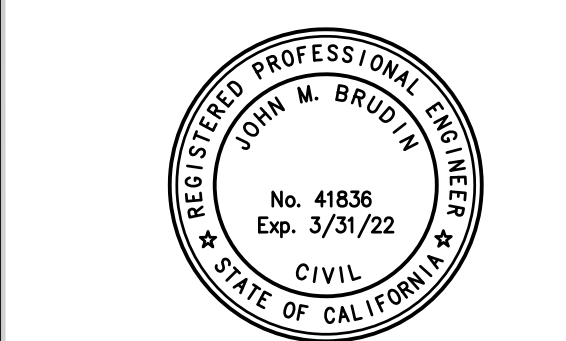
ISSUE INFORMATION:

DATE:	INFORMATION:

SHEET INFORMATION:

STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: FEBRUARY 2021
PLOT DATE: -
DRAWING NAME:

SEAL:



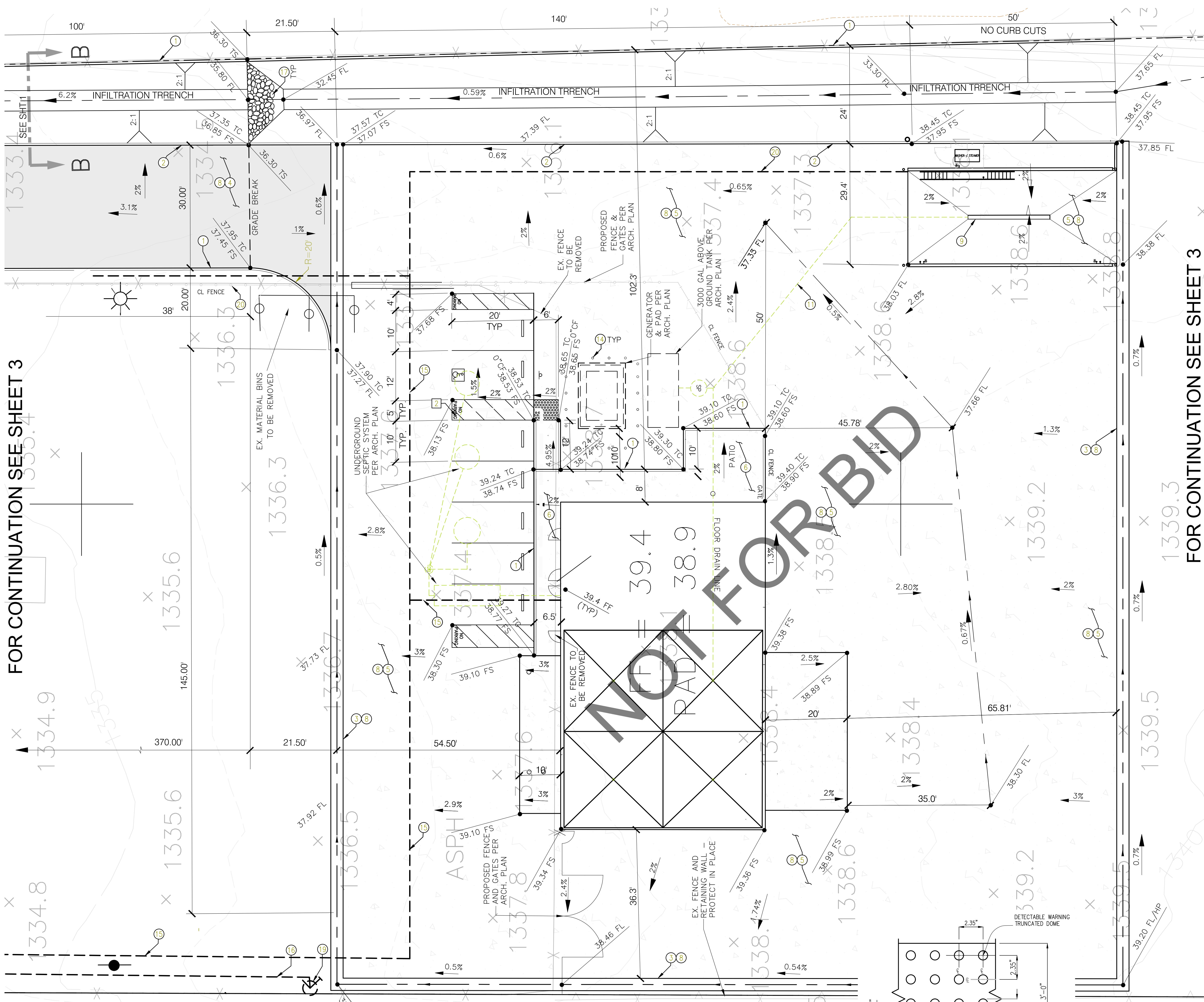
SHEET TITLE:

PRECISE GRADING PLAN
COUNTY YARD INDEX SHEET

SHEET NO.:

SHEET 1 OF 3

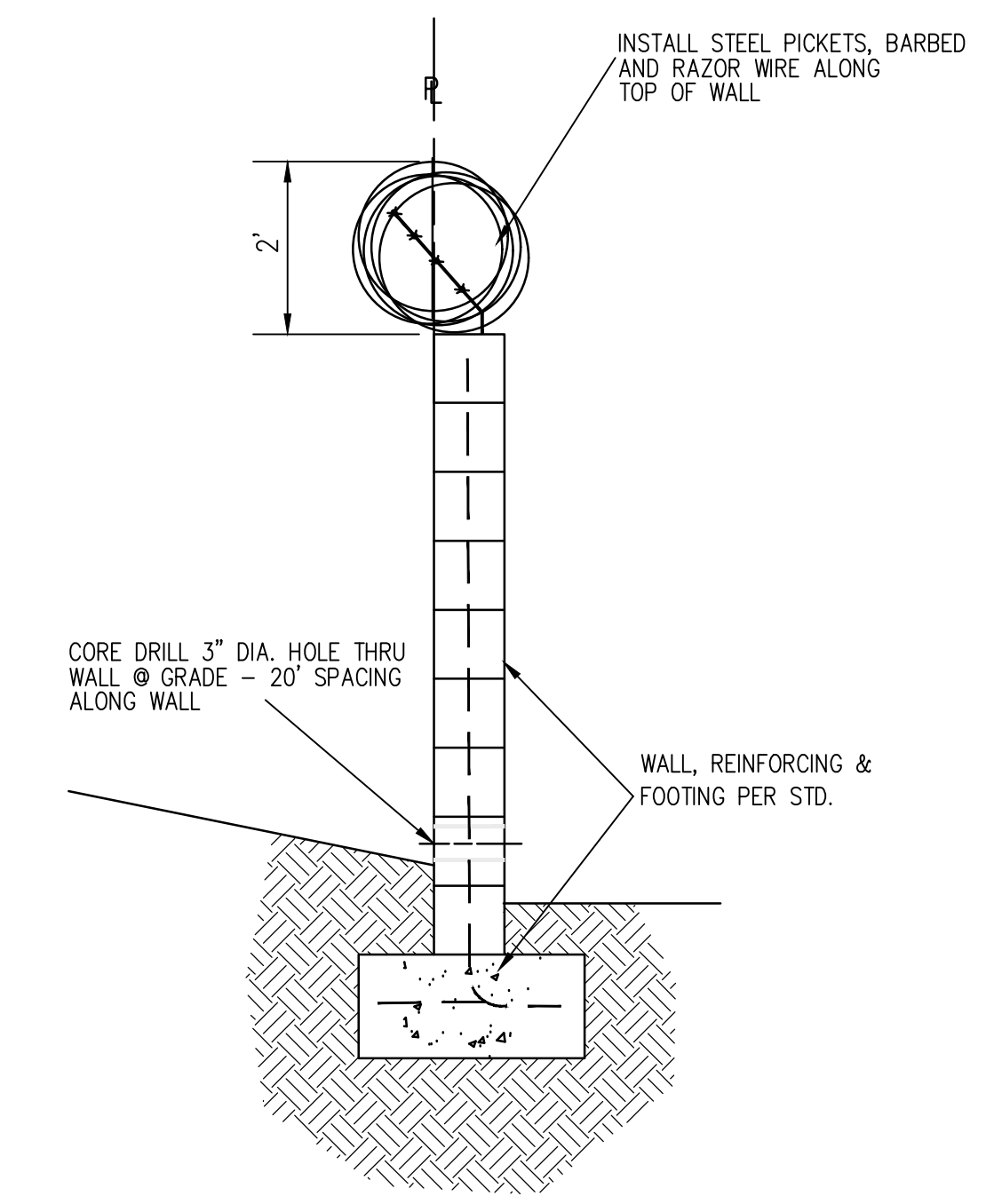
FOR CONTINUATION SEE SHEET 3



CONSTRUCTION NOTES

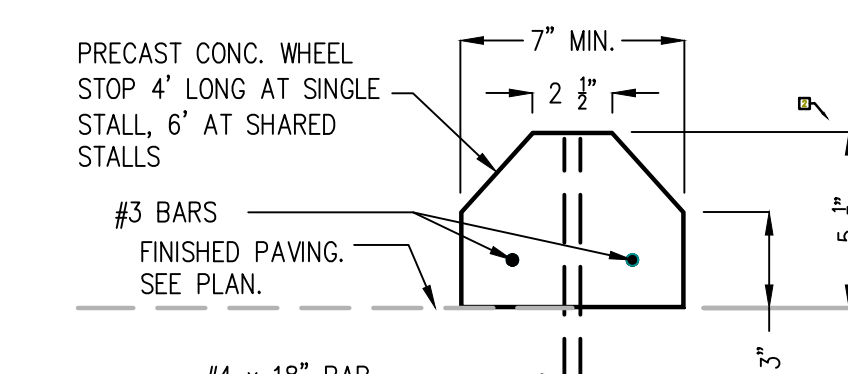
- 1 CONSTRUCT PCC 6" CURB ONLY PER APWA STD. NO. C-1 OR EQUIV.
- 2 CONSTRUCT 6" AC BERM PER APWA STD. DC OR EQUIV. WITH CURB CUTS PER DETAIL SHEET 1.
- 3 CONSTRUCT 3" WIDE CROSS GUTTER PER DETAIL - SHEET.1.
- 4 CONSTRUCT 4" THK. MIN. AC OVER 7" AB PER SOILS REPORT
- 5 CONSTRUCT 5" THK. CONC. W/ #3'S @ 18" O.C.
- 6 CONSTRUCT SIDEWALK PER SBC STD. 109.
- 7 INSTALL 6" H. BLOCK WALL PER SAN BERNARDINO COUNTY TRANS. DEPT. STD. 301 ALONG REAR PROPERTY LINE. SEE DETAIL THIS SHT. PER SEPARATE SUBMITTAL AND PERMIT BY CONTRACTOR.
- 8 REMOVE EXISTING PAVEMENT, CURB, GUTTER OR FENCING
- 9 INSTALL 12" X 20' L. ZURN # 2882 TRENCH DRAIN WITH TRAFFIC RATED GRATE OR EQUAL
- 10 SAWCUT & JOIN EXISTING PAVEMENT
- 11 4" DIA. PVC - SDR 35 PIPE - SEWER DESIGN PER SEPARATE PLAN
- 12 NOT USED
- 13 NOT USED
- 14 INSTALL BOLLARD PER DETAIL - SHEET 1.
- 15 2" DIA PVC - WATER DESIGN PER SEPARATE PLAN
- 16 8" DIA FIRE SERVICE LINE PER SEPARATE PLAN.
- 17 1/2 TON RIP-RAP 2' THK.
- 18 NOT USED
- 19 PROPOSED FIRE HYDRANT
- 20 1" DIA PVC - WATER DESIGN PER SEPARATE PLAN
- 21 INSTALL ACCESSIBLE PARKING SIGN PER DETAIL - SHEET 1.
- 22 PARKING STALLS - SEE DETAIL - SHEET 1.
- 23 TRUNCATED DOMES - PER DETAIL THIS SHEET.
- 24 ACCESSIBLE PARKING EMBLEM - PER DETAIL - SHEET 1.
- 25 CONCRETE WHEEL STOP - PER DETAIL THIS SHEET.

FOR CONTINUATION SEE SHEET 3

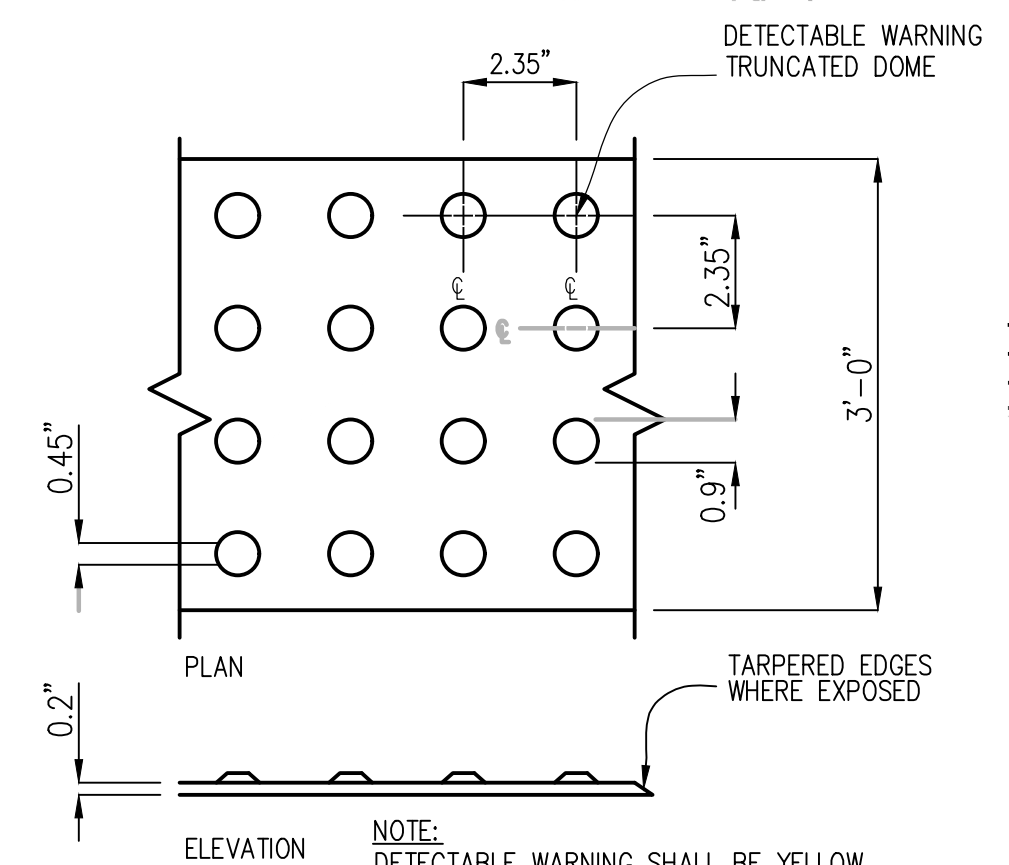


**SECTION C-C
BLOCK WALL/FOOTING DETAIL**

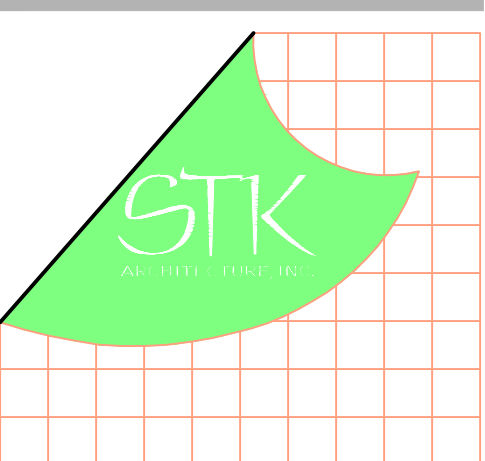
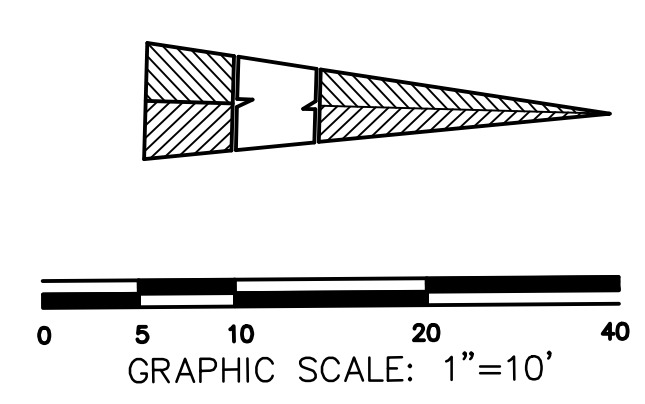
MODIFIED S.B. COUNTY TRANS. DEPT. STD. 301
NOT TO SCALE



CONCRETE WHEEL STOP
NOT TO SCALE



TRUNCATED DOMES DETAIL
NOT TO SCALE



4300 ZEVU DR. TEMECULA, CALIFORNIA 92590-5700
Phone: 951.266.9110 Fax: 951.266.6079 Email: stk@stkar.com

CONSULTANT:



1861 W. Redlands Blvd, Bldg. 1
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
COUNTY OF
SAN BERNARDINO
REAL ESTATE SERVICES
DEPARTMENT -
PROJECT MANAGEMENT
DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
PUBLIC WORKS
DEPARTMENT:
RANCHO YARD NEW
BUILDING

PROJECT # 1010-0692
CIP # 19-050
CAF# # ET100X

12158 BASELINE ROAD
RANCHO CUCAMONGA,
CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:

SHEET INFORMATION:

STK PROJECT NO.: 374-134-2
SCALE: AS NOTE
DATE: FEBRUARY 2022
PLOT DATE:
DRAWING NAME:

SEAL:



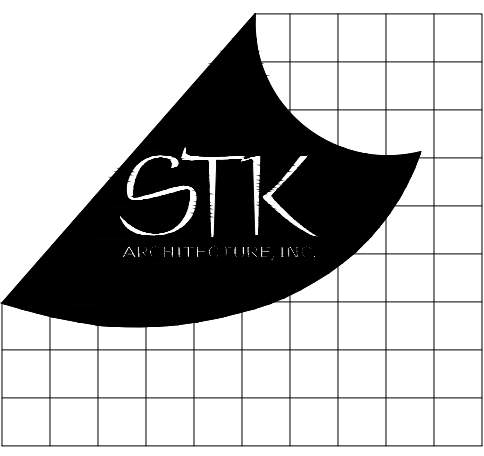
SHEET TITLE:

PRECISE GRADING
PLAN
COUNTY YARD

SHEET NO.:

SHEET 2 OF 3

Underground Service Alert
Call: TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG



42095 ZEVO DR., TEMECULA, CALIFORNIA 92590-3780
Phone: 951.296.9110 Fax: 951.296.6070 Email: stk@stktnc.com

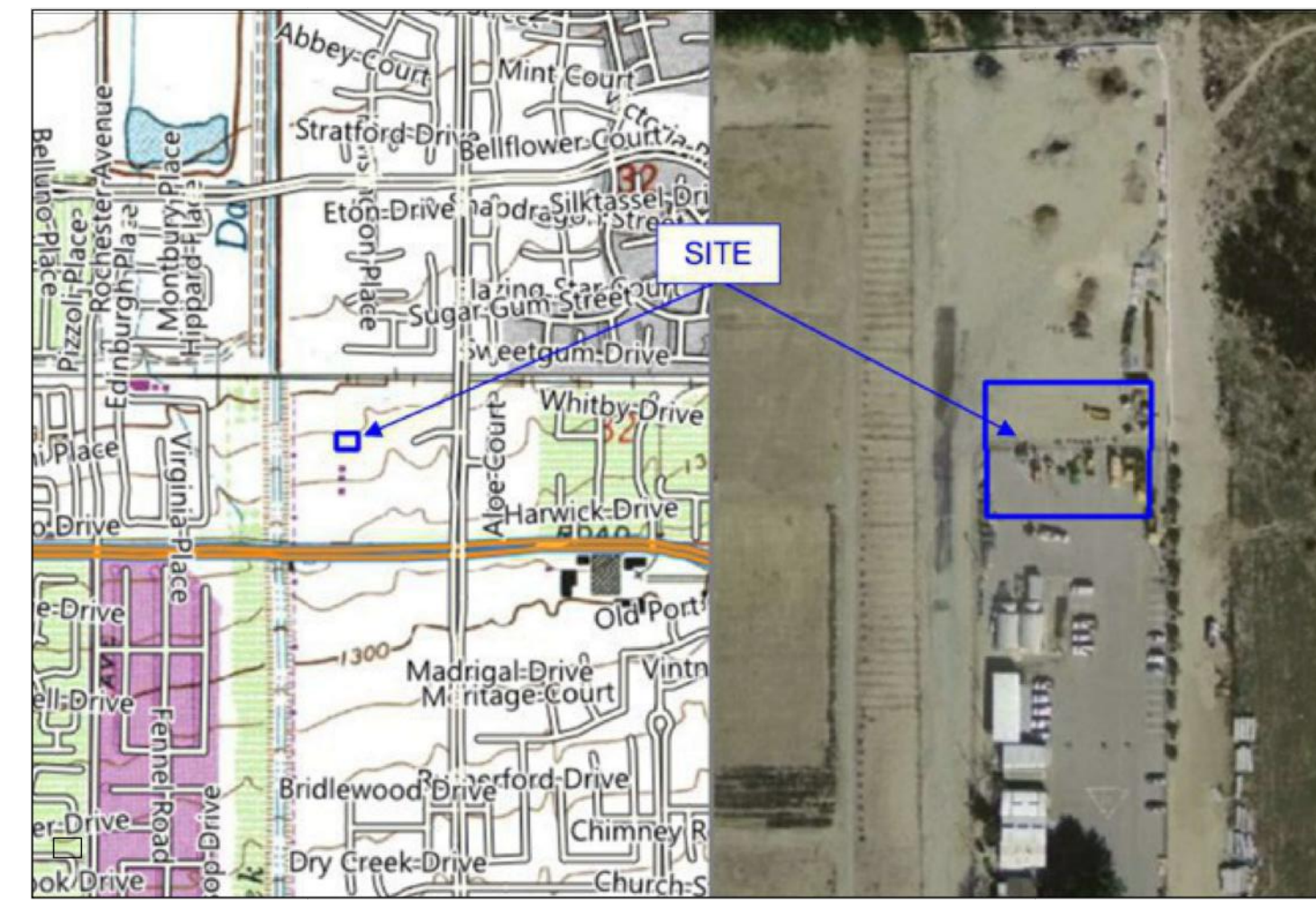
CONSULTANT:

ONSITE WASTEWATER TREATMENT SYSTEM DESIGN

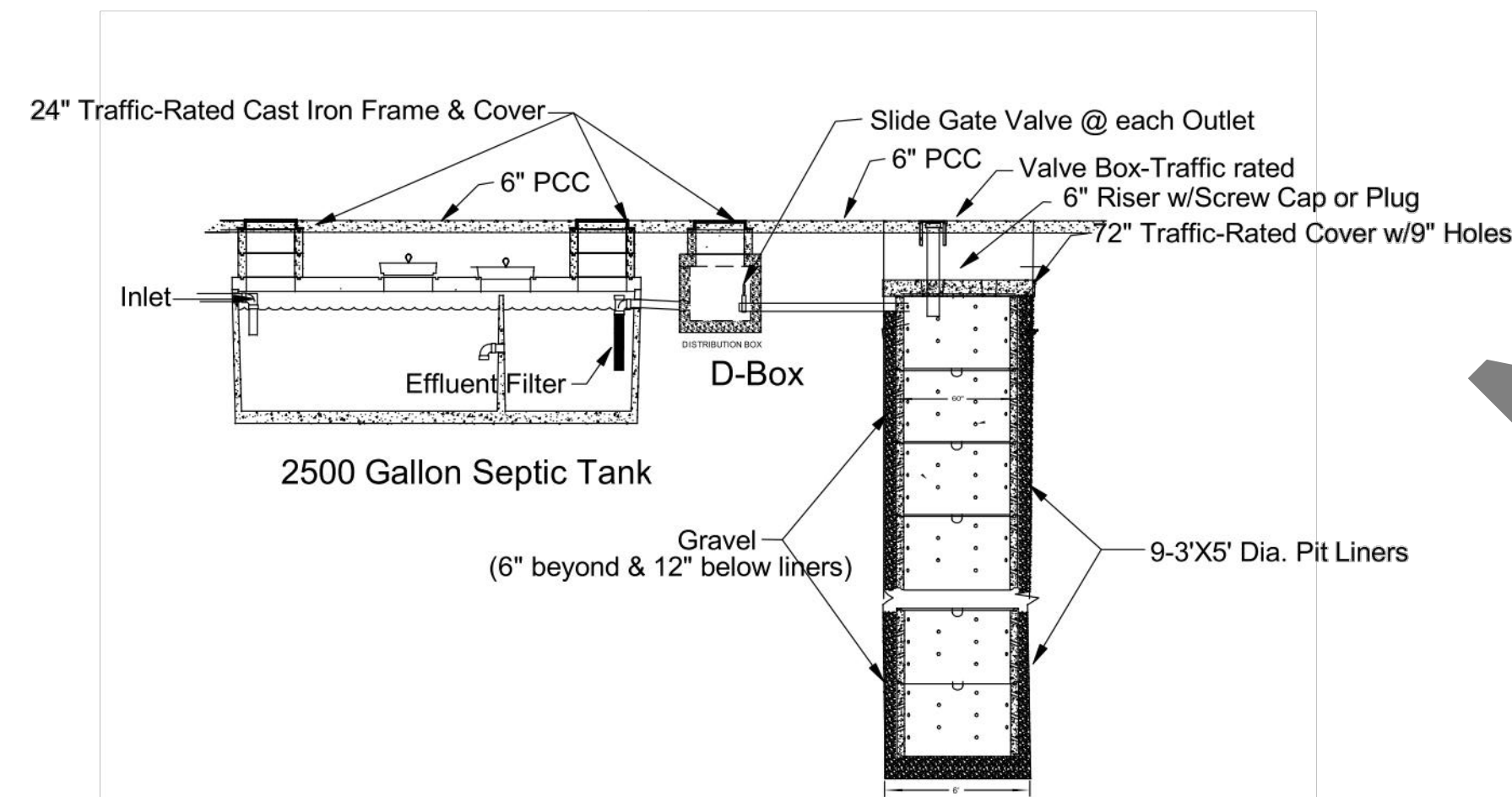
San Bernardino County Public Works
Rancho Yard - New Building

PREPARED FOR: STK ARCHITECTS
42095 Zevo Drive, Suite A15
Temecula, California 92590
(951) 296-9110

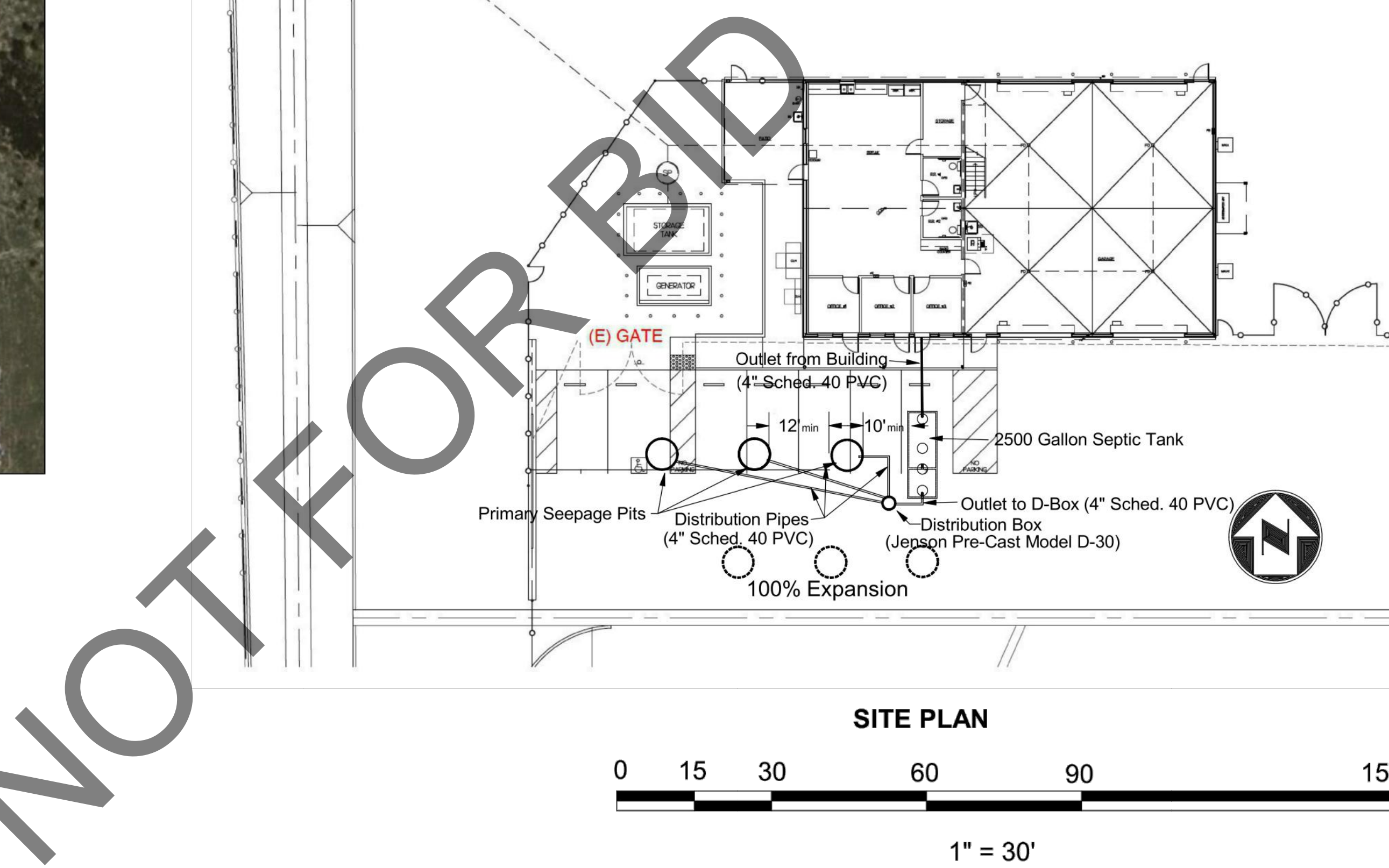
PROPERTY DESCRIPTION: 12158 Baseline Road
Rancho Cucamonga, California



VICINITY MAP



SEPTIC TANK, DISTRIBUTION BOX, SEEPAGE PIT - TYPICAL PROFILE



SITE PLAN

0 15 30 60 90 150

1" = 30'

PERCOLATION RATE: 1.7 Gallons/Square Foot/Day
FIXTURE UNITS: 28
SEPTIC TANK CAPACITY: 2500 Gallons
NUMBER OF SEEPAGE PITS: 3
SEEPAGE PIT DIAMETER: 6 Feet
SEEPAGE PIT DEPTH: 27 Feet Below Inlet

INLAND FOUNDATION ENGINEERING, INC.
1310 South Santa Fe Avenue
San Jacinto, California
(951) 654-1555 FAX (951) 654-0551

Drawn By: L. Strahm Project No. S168-182
Scale: As Shown Date: February 2021

NOTE: PLEASE REFER TO THE SEEPAGE PERC REPORT DATED FEBRUARY 24, 2021 FOR A COMPLETE SEPTIC SYSTEM DESIGN REQUIREMENTS

PROJECT ADMINISTERED BY:
COUNTY OF
SAN BERNARDINO
REAL ESTATE SERVICES
DEPARTMENT -
PROJECT MANAGEMENT
DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
PUBLIC WORKS
DEPARTMENT:
RANCHO YARD NEW
BUILDING

PROJECT # 1010-0692
CIP # 19-050
CAF# # ETIOOX

1258 BASE LINE ROAD
RANCHO CUCAMONGA,
CA 91739

ISSUE INFORMATION:

DATE: INFORMATION:

SHEET INFORMATION:

STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: FEBRUARY 2021
PLOT DATE:
DRAWING NAME:

SEAL:

SHEET TITLE:

SEPTIC
SYSTEM

SHEET NO.:

D-1



OWTS REVIEW - OFFICIAL INSPECTION REPORT

FACILITY NAME COUNTY OF SA BERNARDINO-FLOOD CONTROL (PUBLIC WORKS)				REINSPECTION DATE Not Specified	INSPECTOR Ivy Saguan	DATE 4/7/2021
LOCATION 12158 BASELINE RD, RANCHO CUCAMONGA, CA 91739				PERMIT EXPIRATION	IDENTIFIER: None	
TIME IN 12:28 PM	TIME OUT 1:40 PM	FACILITY ID Not Specified	RELATED ID SR0100710	PE 4108	SERVICE: 025 - PLAN REVIEW RESULT: 03 - CORRECTIVE ACTION / NO FOLLOW UP RE ACTION: 61 - PLAN REVIEW WAITING ON CUSTOMER	

OWTS REVIEW - Commercial Dvlpmnt Perc Test Review

Based on an inspection this day, the items marked below identify the violation(s) in operation or facilities which must be corrected. Failure to correct listed violation(s) prior to the designated compliance date may necessitate an additional inspection to be billed at the hourly rate as provided in the San Bernardino County Code, [Schedule of Fees](#).

Administrative Order to Show Cause (OSC): The Permittee has the right to a hearing if requested in writing within 15 calendar days of receipt of this notice, to show cause why the permit to operate should not be suspended or revoked; otherwise the right to a hearing shall be deemed waived.

See the following pages for the code sections and general requirements that correspond to each violation listed below.

41P983 PERC - Rejected - Resubmittal Required ⚠️ CRITICAL ⚠️

Compliance Date: Not Specified
Not In Compliance
Violation Reference - SBCC - SBC Policy

Inspector Comments: Resubmit Percolation Test Report with the following correction indicated in this report review. Initial resubmission requires no fee. However, all subsequent resubmissions will require a resubmission fee according to the current Fee Schedule.

Violation Description: The percolation report cannot be approved as submitted. Corrections and resubmittal are required along with the current resubmittal fee. If additional testing is required, DEHS will need to be notified 48 hours in advance.

41K001 Plan - Commercial - Fixture Unit Count and Estimated Daily Flow

Compliance Date: Not Specified
Not In Compliance
Reference - CCR 24 - Appendix H, Section 2.1

Inspector Comments: Provide occupancy information/calculations in estimated wastewater flow for the project according to the California Plumbing Code Table H 201.1(2)

Description: The septic tank size shall be based on the number of fixture units or the estimated daily flow based on the type of business, whichever is greater. Refer to 2013 CPC Table H 2.1 and H 2.1(1). Calculations for the fixture unit count and estimated daily flow shall be provided with the plot plan.

41K060 Plan - Sewer Will Not Serve Letter

Compliance Date: Not Specified
Not In Compliance
Reference - SBCC - 84.21.030, 83.09

Inspector Comments: Please provide a will not serve sewer from the local sewer purveyor.

Description: A sewer will not serve letter shall be provided from the local sewer purveyor. The letter shall mention the parcel for which the private sewage disposal system is being proposed as well as the distance to the nearest sewer connection. Any parcel within 200 feet of sewer service will be required to connect and the plot plan will not be approved. The 200 foot sewer connection requirement will be increased by 100 feet for each additional lot being proposed.

Overall Inspection Comments

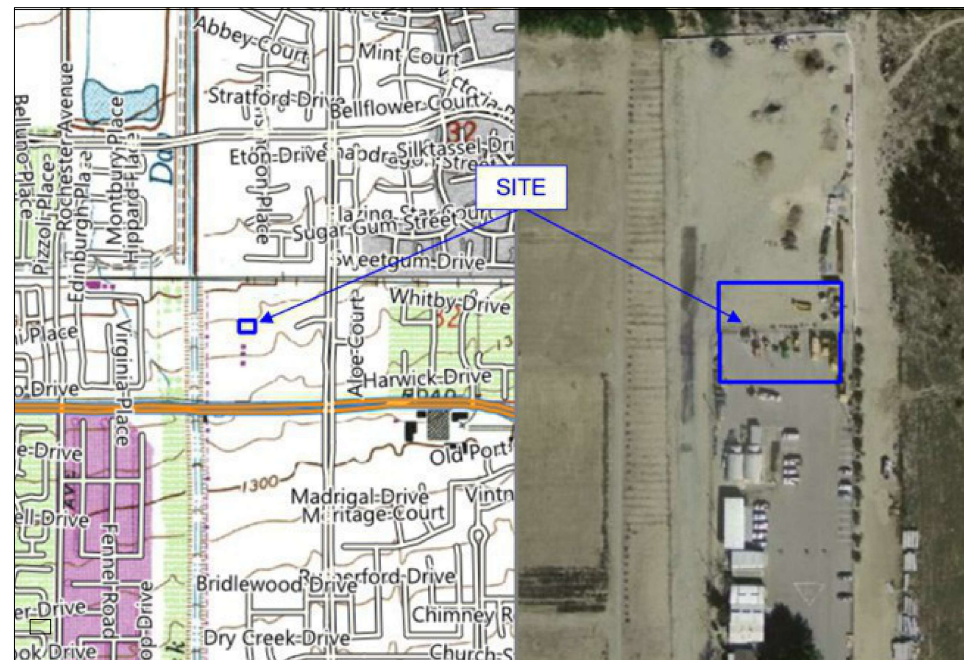
No summary comments have been made for this inspection.

Total # of Images: 0

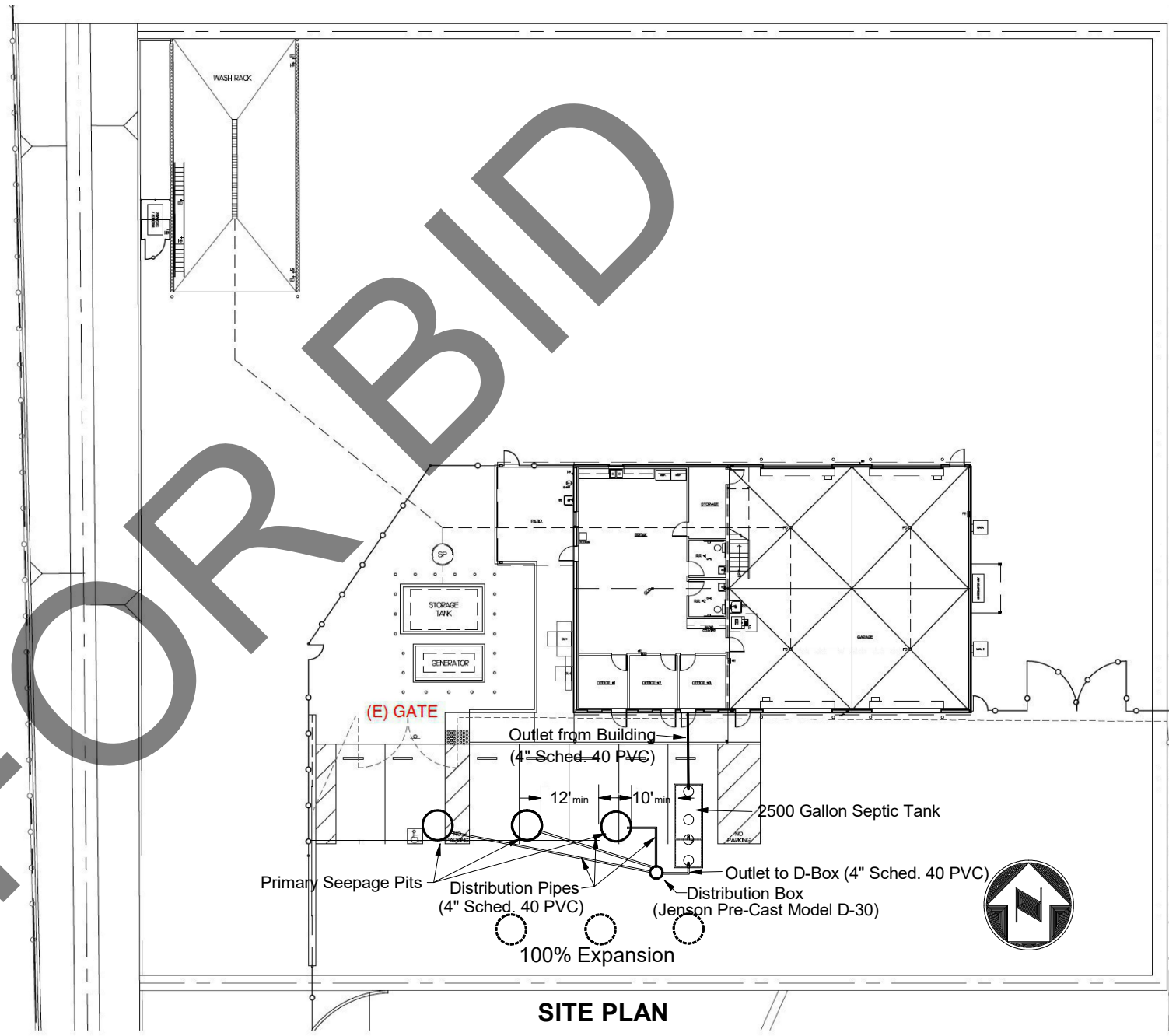
ONSITE WASTEWATER TREATMENT SYSTEM DESIGN
 San Bernardino County Public Works
 Rancho Yard - New Building

PREPARED FOR: STK ARCHITECTS
 42095 Zevo Drive, Suite A15
 Temecula, California 92590
 (951) 296-9110

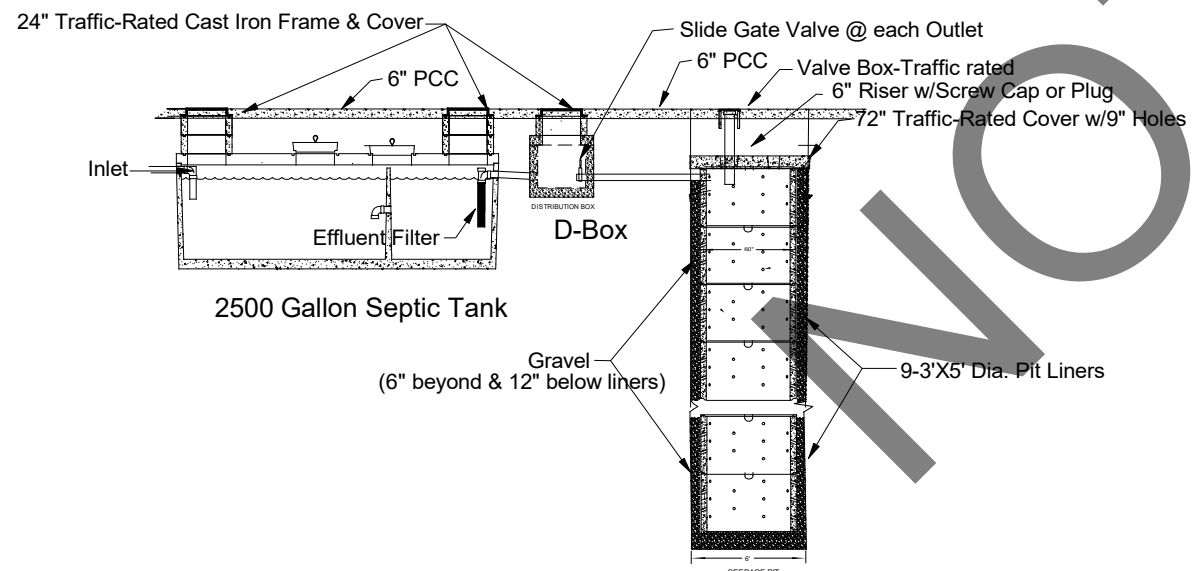
PROPERTY DESCRIPTION: 12158 Baseline Road
 Rancho Cucamonga, California



VICINITY MAP



SITE PLAN



SEPTIC TANK, DISTRIBUTION BOX, SEEPAGE PIT - TYPICAL PROFILE

FIXTURE UNITS SEPTIC TANK CAPACITY (per Table H 201.1(1))
 Fixture Units (See Report): 28
 Minimum Septic Tank Capacity per Table H 201.1(1) = 1500 gallons
 FLOW RATE DETERMINATION (Table H 201.1(2))
 No. of Employees; 16
 Gals/Employee: 25
 Daily Flow = 25 gals/person X 16 people = 400 gals/day
 Minimum Septic Tank Capacity per Table H 201.1(2) = 400 gals. X 1.5 = 600 gallons
 DESIGN SEPTIC TANK CAPACITY: 2500 Gallons
 PERCOLATION RATE: 1.7 Gallons/Square Foot/Day
 NUMBER OF SEEPAGE PITS: 3
 SEEPAGE PIT DIAMETER: 6 Feet
 SEEPAGE PIT DEPTH: 27 Feet Below Inlet

INLAND FOUNDATION ENGINEERING, INC,
 1310 South Santa Fe Avenue
 San Jacinto, California
 (951) 654-1555 FAX (951) 654-0551

Drawn By: L. Strahm

Project No. S168-182

Scale: As Shown

Date: February 2021
 (Rev. 4/21)



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

John Bosler
Secretary / General Manager/CEO

November 10, 2020

County of San Bernardino
Environmental Health Department
385 N Arrowhead Avenue #2
San Bernardino, CA 92415

**Re: Availability of Water and Sewer Service
12158 Baseline Road
Rancho Cucamonga, CA**

To Whom It May Concern:

You are hereby advised that 12158 Baseline Road is located within the service area of the Cucamonga Valley Water District.

We have reviewed the above location and have determined that the District has an adequate supply of water available to meet the needs of this location, including minimum fire flow requirements as established by the Rancho Cucamonga Fire District. However, the District does not currently serve sewer adjacent to this address. The nearest sewer main is over 700' from this location.

Following the receipt of appropriate application, arrangements can be made for the installation of facilities required to meet the needs of the development and furnish public water and sewer utility service to the development in accordance with the District's policies, rules, regulations, and rate ordinances.

If you have any questions or need further information, please contact me.

Sincerely,

CUCAMONGA VALLEY WATER DISTRICT

A handwritten signature in black ink that reads "Ted Munson Jr." in a cursive style.

Ted Munson Jr.
Lead Engineering Technician

James V. Curatalo, Jr.
President

Luis Cetina
Vice President

Kevin Kenley
Director

Randall James Reed
Director

Mark Gibboney
Director