CITY & COUNTY ENGINEERING AND TESTING INC.

2324 S. Vineyard Ave., Suite B, Ontario, CA 91761; (909)-930-5868

ON-SITE SEWAGE DISPOSAL FEASIBILITY INVESTIGATION, 4.83 ACRE SITE PROPOSED SRI SAI RAM MANDIR, 12594 ROSWELL AVENUE CITY OF CHINO, COUNTY OF SAN BERNARDINO, CALIFORNIA

Parcel Map Number: 1016-331-05-0000

Job #J&P 2018045-SDI.RPT August 19, 2018

Prepared For: SRI SAI RAM MANDIR C/O ArunaSri Reddy 1207 E. Florida Ave. Hemet, CA 92543

Prepared By:.
CITY & COUNTY ENGINEERING AND TESTING, INC.
2324 S. Vineyard Avenue, Suite B
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August 19, 2018 Job #J&P2018045 SDI.RPT

SRI SAI RAM MANDIR C/O ArunaSri Reddy 1207 E. Florida Ave. Hemet, CA 92543

Subject: ON-SITE SEWAGE DISPOSAL, FEASIBILITY INVESTIGATION 4.83 ACRE SITE, PROPOSED SRI SAI RAM MANDIR, 12594 ROSWELL AVENUE, CITY OF CHINO, COUNTY OF SAN BERNARDINO, CALIFORNIA

LEGAL Parcel Map Number: 1016-331-05-0000

Pursuant to your request, we have conducted an on-site- sewage disposal feasibility investigation based on a seepage pit and septic tank system for the proposed *Sri Sai Ram Mandir* development at the subject site. The accompanying report presents the results of our field investigation, testing, and engineering analysis. The subsurface soil conditions are discussed, and design recommendations are presented.

Our investigation indicates that a private on-site sewage disposal system utilizing a septic tank and seepage pit is feasible on the subject site, provided our recommendations are followed. A design layout "*Plot Plan*" is submitted for the septic tank and seepage pit system (see Plate-2).

During the exploration and testing; the undersigned, drilling cru and our field technician were present on August 12, 2018.

The opportunity to be of service is appreciated. if you have any further questions regarding this matter, please contact this office.

Respectfully submitted,

CITY & COUNTY ENGINEERING AND TESTING INC.



Zenuddin S. Bhatia, R.C.E. #36150

. SUMMARY OF ON-SITE SEWAGE DISPOSAL EXPLORATION AND PERCOLATION TESTING

Four(4) exploratory borings to a maximum depth of 40 feet were drilled using a truck mounted hollow stem auger CME-45. The test borings were logged and sampled at every five feet intervals by the field engineer. After completion of the boreholes, the bottom 10 feet of the percolation test holes (from 40 to 30 feet) were backfilled using on-site sandy materials. Thereafter, a three (3) inch perforated pipe, wrapped with filter fabric was installed in the test hole. and side gaps were filled with on-site sandy materials. The test holes were filled with water and pre-soaked as per the requirements of the County of San Bernardino. The water was observed to be percolating relatively slow therefore. 30-minute readings were taken. Seven (7) readings of 30 minutes each were obtained in each test hole. The final rate of percolation was observed to be 2.40 gal sq. ft. per day from 4 to 30 feet depths at the subject site. The correction factor of 0.85 was used to compensate the use of portion of on-site soil to backfill the gap between the pipe and the hole. Accordingly, the designed percolation rate will be 2.4 x 0.85= 2.0 gal/sq. ft./day.

SUB SOILS CONDITION

The site is covered with grass and weeds sparsely to a depth of 3 inches. Old windblown fill consists of dark gray, fine silty sand (SM), dry and slightly moist; loose up to 2 feet depth. The subsoil below 2-feet up to a depth of 6 feet found to be dark gray, fine silty sand, poorly graded, slightly moist and medium dense. The underlying soils found to be olive gray, fine silty sand and sandy silt (ML), slightly moist to moist and medium dense to stiff up to a maximum depth of our borings to 40 feet below existing ground level.

A more detailed description of the earth materials encountered is presented on the logs of exploratory borings in Appendix-A. The soil strata as described on the boring logs represent the soil conditions at the actual boring locations, other variations may occur between the borings.

Based on the exploration and testing, the sub soils at the subject site within the marked percolation testing area were found to be fine grained silty sand and sandy silt (SM and ML), relatively moderate draining and permeable. These materials are suitable for satisfactory functioning of on-site sewage disposal system utilizing a septic tank and seepage pit for the subject development without causing any unhygienic health condition in or around the site.

2. DESCRIPTION OF SITE AND PROPOSED DEVELOPMENT

2.A) Prepared for: SRI SAI RAM MANDIR C/O ArunaSri Reddy 1207 E. Florida Ave. Hemet, CA 92543

2.B) Location of Site:

- (a) The project site is located at 12594 Roswell Avenue, Chino Area, within the County of San Bernardino, California.
- (b) Parcel Map Number: 1016-331-05-0000

2.C) Proposed Development

- a) *Type of Project*: The proposed on-site sewage disposal system consisting of two (2), fifteen hundred (1700) gal. Septic tanks with four seepage pits of five feet diameter and 29 feet total depth including upper 4 feet inlet.
- b) Size and Proposed Project: The site is irregular shaped and covers approximately 4.90 acres. Several structures located around the site have been developed with a single-family home utilizing on-site sewage disposal method of septic tank and seepage pits and are working satisfactorily for the last 5-10 years. The proposed site will be developed for a Sri Sai Ram Mandir Center, a community religious place with maximum of 80 fixture units; ie 3375 gal. capacity septic tank.
- c) *Type of On-Site Sewage Disposal System*: On-site sewage disposal system based on septic tank and seepage pit is proposed for the proposed Community Religious Center at the subject site. The project will have 3375 gal. septic tank and four (4) seepage pits of five (5) feet diameter and total 31 feet depth including 4-feet inlet.
- d) See Plot Plan for location of exploratory test holes, percolation holes and septic tank/seepage pit system.

2.D) Description of Site and Surroundings

- **Topography:** The site is fairly level sloping to the south and southeast by less than 2%. Abandoned water well is located in the southeast of the site, and it is more than 200 feet away from the proposed seepage pit locations. No drainage course is located within 200 feet of the site.
- a) Water Courses and Drainage: The natural drainage is by sheet flow to the southeast.
- b) *Vegetation*: The site is vacant, was partly developed with a single-family home, which was later on used as Armstrong Nursery for several years, and demolished and removed from the site. At present it is covered with dense weeds, seasonal grass and few scattered trees.
- c) *Existing Wells*: There is abandoned water well in the southeast portion and it is more than 200 feet of away from the proposed seepage pits.
- d) *Existing Structures*: No structure existed on the site during the exploration. The site was vacant and reported as undeveloped except a dwelling and was used for nursery

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business. The seepage pits and septic tank must be at least 10-feet away from the adjacent property lines.

- e) *Rock Outcrops:* There are no rock outcrops located on the property.
- f) *Ground Water*: No ground water was encountered in our exploratory borings to a maximum depth of 40 feet during the investigation. Based on the data obtained from the local water district, the depth of free ground water in the vicinity of the site is more than 50 feet.
- g) *Other Features*: There are no other features that may affect the performance of the sewage disposal system.
- i) *Anticipated Grading*: A maximum four (4) feet of cut/fill grading is anticipated in the proposed septic tank and seepage pits area.

2.E) Exploration Equipment

Four exploratory borings including two (2) percolation test holes were drilled using a truck mounted CME-45 hollow stem auger-8-inch diameter. A water hose was used for percolation testing. Also, used for conducting the percolation testing were a tape measure with 1/16-inch gradation, a mirror and a flashlight.

2.F) METHODOLOGY AND PROCEDURES

- a) *Location of Boring* The exploratory borings and percolation test holes were located nearby the proposed septic tank and seepage pit system site to obtain a representative sampling of the soil conditions. See the plot plan, Plate-2, for location of exploratory borings and percolation holes.
- b) *Test Procedures*: The percolation test holes were drilled to a depth of 40 feet below the ground. The sub soils up to a depth of 8 feet was fine poorly graded silty sand (SM), thereafter it was becoming fine silty sand and sandy silt (SM-ML) to a maximum drilled depth of 40 feet. The perforated pipe was wrapped with filter fabric to minimize clogging of pipe holes. The test holes were soaked prior to performing percolation testing. The percolation tests were performed in accordance with the guidelines provided by the *County of San Bernardino*, *Department of Environmental Health Services*, *Booklet "On-Site Waste Water Disposal System"*.

2.G) RESULTS

a) The water was observed to be percolating relatively slow in the test holes; therefore 30-minute readings were obtained. Seven (7) readings of 30 minutes each were obtained. The final rate of percolation was observed to be 2.4.0-gal sq. ft. per day from 4 to 30 feet depth at the subject site. The designed percolation rate considering 0.85 corrections factor will be 2.0 gal/sq. ft./day.

b) Ground water was not encountered in any of our boring during the exploration or prior to backfilling to a maximum depth of 40 feet. The depth of groundwater in the vicinity of the site is more than 50 feet from the ground surface.

Test Results: See the attached percolation test data and results in Appendix D.

2.H). DISCUSSION OF RESULTS

- *Uniformity:* The percolation test results were relatively uniform and are indicative of the type of earth materials encountered.
- b) Variability or Error: Caving in the percolation test hole did occur and was minimal. The percolation testing could be carried out per the County guidelines. The percolation rates obtained, and subsoil strata encountered including soil gradation testing of the materials encountered during the exploration did provide sufficient data related to soil permeability.

2.I). DESIGN RECOMMENDATIONS

The site is proposed for a Sri Sai Ram Mandir Center with total 80 plumbing fixtures including toilets, urinals, sinks, shower and floor drains.

Based on the exploration and percolation data summarized in this report and per the County guidelines a design absorption rate of 2.0 gal. Sq. ft./day shall be considered.

Absorption area shall be calculated based on 3375-gal effluent per day. Accordingly, four (4) seepage pits of 5 feet in diameter and total depth of 31 feet from the top with 4 feet inlet are recommended.

2.J). PLOT PLAN

See Plate-2 for the proposed site design and location of exploratory borings and percolation test holes. A grading plan with building location should be submitted to us for review and final approval of the proposed on-site sewage disposal system.

2.K) CONCLUSIONS AND RECOMMENDATIONS

(On-site Sewage Disposal System)

Our evaluation of the soil conditions indicates that a private on-site sewage disposal system utilizing a septic tank and seepage pit appears to be feasible, provided our recommendations are followed for the design and construction of the system. See the summary sheet for system design requirements. See the plot plan for locations of exploratory and percolation hole.

Based on the data presented in this report, and testing information accumulated, it is our judgment that the ground water table will not encroach within current allowable limits set forth by County and State requirements and is not expected to be less than 50 feet beneath the existing ground surface in the areas of the on-site sewage disposal system.

It is our opinion that the proposed on-site sewage disposal system utilizing a septic tank and seepage pit for the subject development will work satisfactorily without causing any unhygienic health condition in or around the site.

Based on the data and recommendations presented in this report, it is our judgment that there is sufficient area on the site to support a private on-site sewage disposal system based on seepage pit and a septic tank.

The seepage pit excavation should be inspected by City & County Soil Engineering and Testing and the County of San Bernardino. In the event, if this firm does not perform the inspection, City & County Soil engineering and testing will not be responsible for the subject work.

Should excessive grading be performed on the above site in the future sewage disposal system areas, we should be contacted immediately before commencement of grading to make appropriate recommendations for the installation of the sewage disposal system.

Seepage pit and septic tank materials and installation should conform to the standards and specifications of the State and County.

All recommendations are subject to review and revisions of the County of San Bernardino, Environmental Health Division. No final planning or construction shall commence prior to approval of the sewage disposal system by the County.

Plate 1

Respectfully Submitted,

CITY & COUNTY ENGINEERING AND TESTING INC.



Zen S. Bhatia, R.C.E. #36150,

Dist: (4) Copies to addressee

Attachment: Index Map

Boring Location map Plate-5
Percolation Test Data Sheet-

SITE PHOTOGRAPHS



VIEW-EAST TO WEST

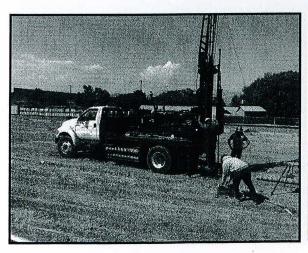
VIEW-DOUBLE RING INFILT. TEST



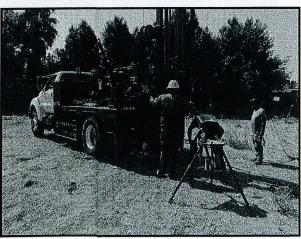
VIEW- NW TO SE



VIEW -SE TO NW



VIEW-SOUTH TO NORTH

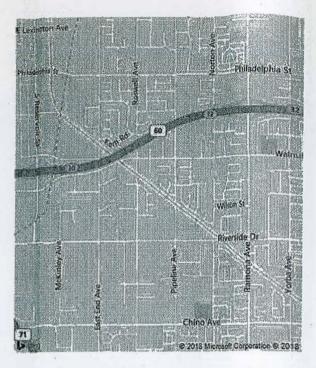


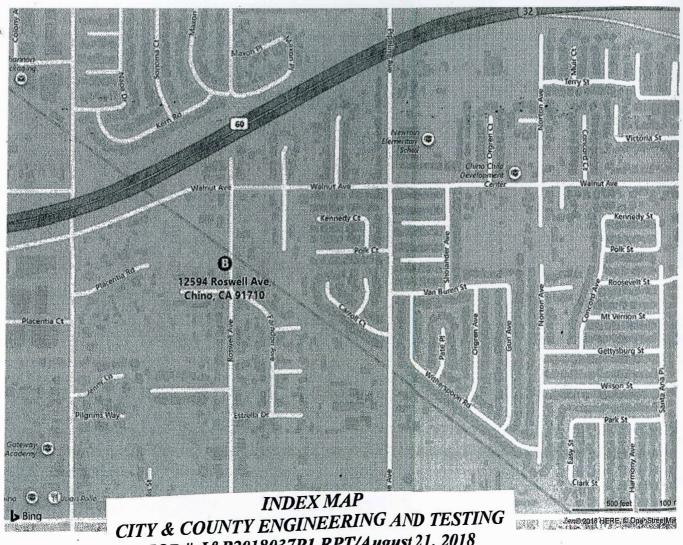
VIEW- WEST TO EAST
Plate # 1

bing maps

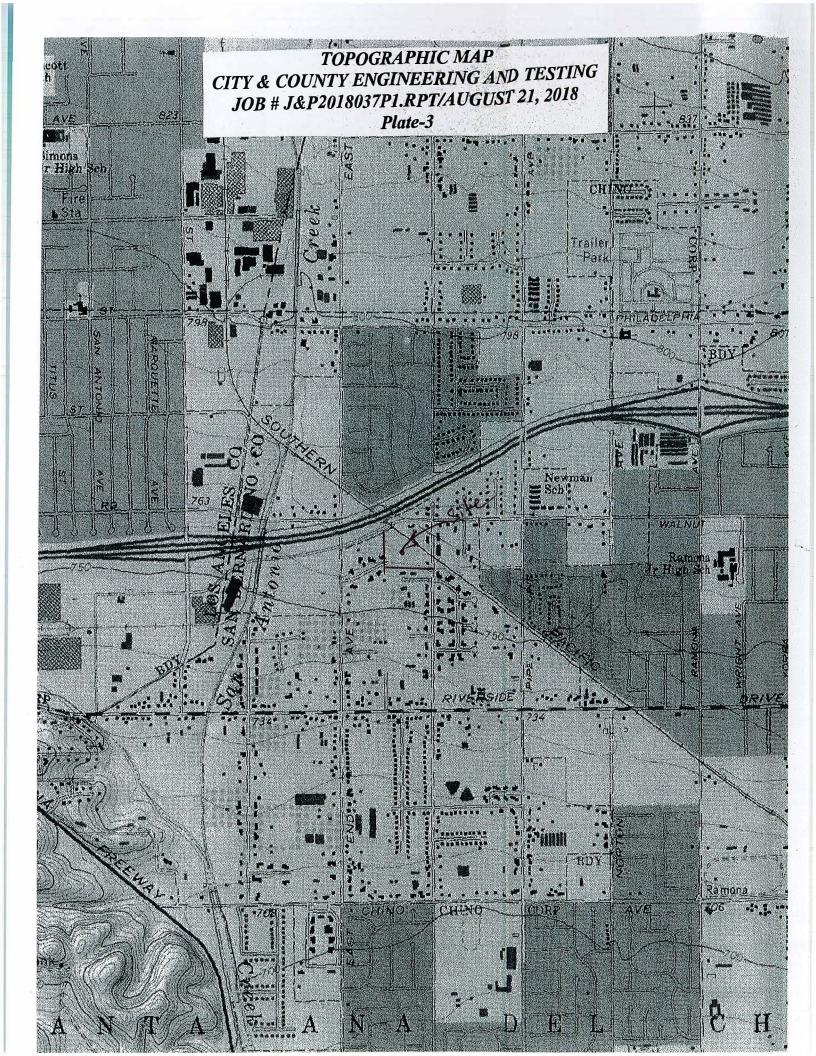
Notes

SRI SAI RAM TEMPLE
JOB #J&P2018037P1
August 7, 2018
INDEX MAP
Plate 2





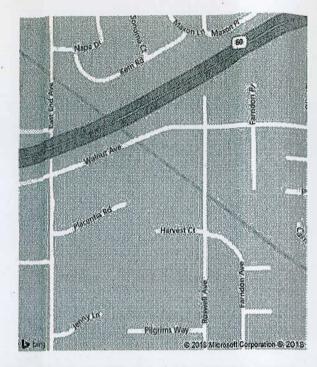
CITY & COUNTY ENGINEERING AND TESTIN JOB # J&P2018037P1.RPT/August 21, 2018 Plate-2

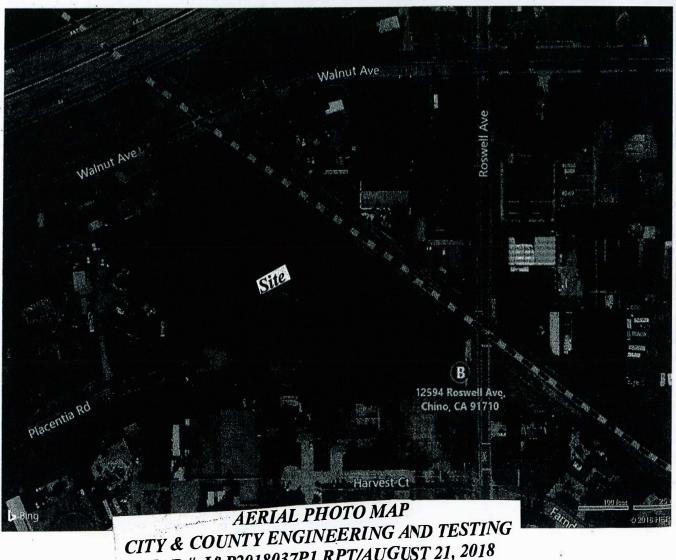


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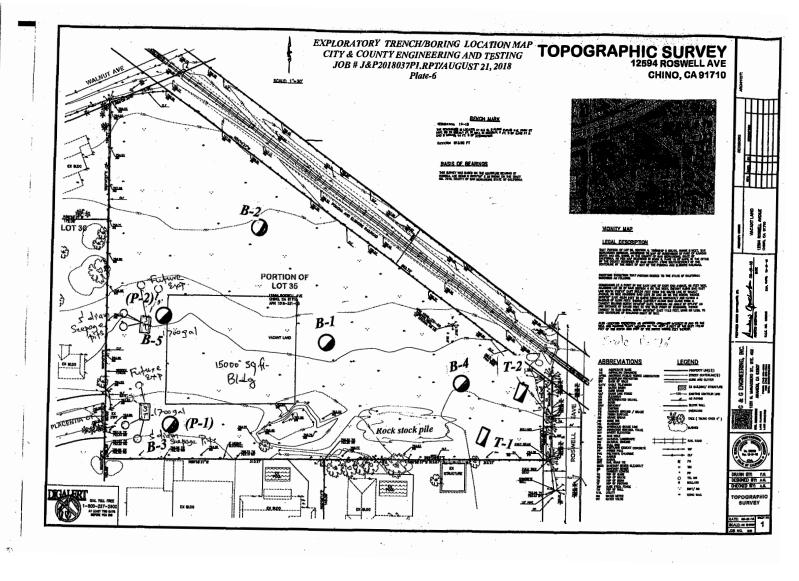
Notes

SRI SAI RAM TEMPLE JOB #J&P2018037P1 August 7, 2018 AERIAL MAP Plate 3





JOB # J&P2018037P1.RPT/AUGUST 21, 2018 Plate-4



<u>APPENDIX A</u> <u>PERCOLATION TEST DATA/GRAPH</u>

CITY & COUNTY SOIL ENGINEERING AND TESTING

PERCOLATION TEST RESULTS AND DESIGN FOR SEEPAGE PIT

Job #: J&P2018045-SDS.PRC

Site: AP #1016-331-05-0000

12594 Roswell Ave., Chino, California

Project Description: Sri Sai Ram Mandir Center with total 80 plumbing fixture units

Test #	Depth of Tes	t Soil Classification	Percolation Rate (Gal/Sq. Ft./Day)
P-1 (B-1 P-2 (B-7)	0-40' 0-40'	<u> </u>	silty sand (SM) 2.50 gal./ sq. ft./day silty sand (SM) 2.32 gal./ sq. ft./day

After considering correction factor of 0.85 for backfilling the gap between the pipe and the hole partly with on-site soils, the approved Designed Percolation rate is 2.0 gl/sq. ft./day

Design Percolation Rate (Gal/Sq. Ft./Day)	Effective Sidewall Area
	(sq. ft. per 100 gal. Effluent)
2.0	50.0

Nos. of Fixture Units Septic Tank Size Required Required Side Wall Area

80-plumbing fixture units 3000x0.75 + 1125= 3375 Gallons 3375 sq. ft.

Proposed Seepage Pit Size Proposed Seepage Pit Area Four Seepage Pit of Five (5) feet Diameter 31-feet total depth with 4-feet inlet Effective Depth of 27-feet

2x (4) x27' x 5' x 3.14 = 3391 sq. ft.

See Plot Plan for Location of Seepage Pits and Septic Tanks

Note: 100% expansion is provided

PERCOLATION TEST DATA - SEEPAGE PITS

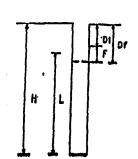
Test No. <u>BICH</u> Client: <u>Sri SiRam Mandi</u> r	Job No. Jalzo180455DI. Site: 12194 Roswell Ave
Date of Boring: 8/12/18	Chino CA
Date of Boring: S/12/18 Boring Diameter: 8/12/18 Presaturation: Date: 8/12/19 Time	Test Performed By: JM
Percolation Testing: Date: 8/12/18 _	e: <u>8aw</u> Remarks:
Soil Type:	

-	il Type:										• [
NG	TIME										
READING No.	Ti Tf	ΔΤ	Te	Di	Df	F	Hi	Hf	L	Q	
1	1200 Pm 1230	30	.30	524	110"	4.8	30	29.0	22-74	2~5¥	
2	1:37	30	60	524	105	4.4	29	28.59	21.97	2-41	1
3	2:14 2:44	20	90	49"	99"	4.2	28.5	27.50	21-71	2.32	
4	3:10	30	120	46"	99	4.4	2750	26,00	20,17	2-57	
5	3:22 3:57	30	150	49"	97	4.0	26.0	25-50	19.66	2.45	:
6	4:00 4130	30	(80	49"	97	40	25.50	24.0	18.66	2-58	
7	J-0.T	30	210	18Y	95	39	24-0	23.70	1750	2-64	
8											
9							Ave	inge	Pali	250	
10					Cirre	ction		w. 0->		2-12	,
11							,			Jal/safe	/
12							a ⁴				
13											

L= (Hi-Di)	+ (Hf-Df) / 2,	
Based on safety factor of	$ \begin{cases} Q = \frac{9D}{T} \frac{F}{T} \end{cases} $	

<u>Sample Calculations</u> Reading No.

T1-	Initia	l time	after	filling	15	comp'	leted
74	E4 1			& & 11°		-	



Ti- Initial time after filling is completed
If- Final time at end of fall
OT- Time interval, minutes
Te- Total elapsed time, minutes
Di- Initial depth to water surface at Ti, feet
(from ground surface)
Of- Final depth to water surface at Tf, feet
F - Orop in water level, feet
Hi- Total depth of hole at Ti, feet (from ground surface)
Hf- Total depth of hole at Tf, feet (from ground surface)
L - Average wetted depth
Q - Rate in gal/sq, ft./day

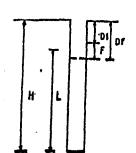
PERCOLATION	TEST	DATA -	- SEEPAGE	PITS

^ TEMODEMITON TEOL DAMA DELIMINE TELO
Test No. P-2 CB-7) Job No. JK P2018045 SDI
Client: Sri Sai Raw Mandir Site: 12-794 Roswell Ave
Chino, CA
Date of Boring:
Boring Diameter:
Presaturation: Date: 3/12/18 Time: 8 a M Remarks:
Percolation Testing: Date: 8/18 @ 11.03 am Remarks:
Soil Type:

_	J11 1311C	· · · · · · · · · · · · · · · · · · ·								
<u>8</u>	TIME									
READING No.	j jr j	ΔΤ	Te	Di	Df	F	Ні	Нf	L	. Q
1	11. 03 11:33	30	30	501	109	4-9	30	30	23:37	2-52
2	1/241	30	60	33 1	87	4.5	30	29	24.57	2.21
3	12:17	30	90	56 4	109	Y.3'	29	V8.5	21.8	237
4	12:53	30	120	7	105	4-2	28.5	28	21.5	2-34
5	1:31	30	150	57"	102	38	28	27.5	2-1-17	2-16
6	21/0 21/0	30	180	50 V	97	4.0	27.5	27.0	21-12	2.28
7	2100 3120	3o	210	49"	95-	4.5	27-0	25.5	20.03	2.40
8										
9							A	errige	Resto	2-32
10					Om	rocko	n fro	lon. 0.2	ج آ	1.97
11						,				stelday
12							2 ⁴			0
13								4/4 / 47 /4 41/4/4		,

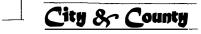
L= (Hi-Di) + (Hf-Df) /.2,	<u>Sample Calculations</u> Reading No.
Based on safety factor of 5 $Q = \frac{9D \frac{F}{T}}{L}$	()
factor of 5) L	Q = =

T1-	Initial	time	after	filling	is	completed
	Final t					•



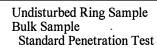
If- Final time at end of fall
AT- Time interval, minutes
Te- Total elapsed time, minutes
Di- Initial depth to water surface at Ti, feet
(from ground surface)
Df- Final depth to water surface at Tf, feet
F - Orop in water level, feet
Hi- Total depth of hole at Ti, feet (from ground surface)
Hf- Total depth of hole at Tf, feet (from ground surface)
L - Average wetted depth
Q - Rate in gal/sq, ft./day

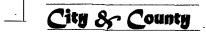
Job # J&P2018037P1		1	08/12/18	Client:	SRI SAI I	RAM MANDIR
Hole Dian	Hole Diameter: 8"		Elev. G.L.	Locatio	n:12594 F	ROSWELL AVE., CHINO, CA
Sampling	Method	Drive V	Vt. 140#	CME-4	5	Logged By: ZB
Drop: 30"				Drilling	Co: GE	OMAT DRILLING, RIVERSIDE, CA
Dry Density (pcf)	Depth (ft)	# of Blows (ft)	Moist. (%)	Sample Type	Soil Class	Earth Materials Description Top Soil: Dense grass-vegetation-12"
2/48					SM	Dark gray, fine silty sand, grass, vegetation, roots s. moist
						very loose
99.1		38	12.0		SM	Brown, fine silty sand, poorly graded, v. moist, med. loose
						dense, 27% passing #200 sieve
	5					
116.4		37	1.7		SM	Olive gray, fine silty sand, poorly graded, s. moist, med.
			<u> </u>	<u> </u>		dense,
	10					
		<u> </u>]
	}	8			ML	Olive gray, fine sandy clayey silt, moist, stiff
				·		
	15					
				'		
		22			SM	Olive gray, fine silty sand, poorly graded, moist, medium
						dense
,	20					
		10) d	Olivo grove fine conductions with mariet according
		19			ML	Olive gray, fine sandy clayey silt, moist, very tiff
	25					
		15	8.0		SM	Olive gray, fine silty sand, poorly graded, moist, medium
	30					dense, 38% passing #200 sieve
	30					



Soil Engineering
And Testing

Job#J&P	2018037P	1	08/12/18	Client:	SRI SAI I	RAM MANDIR		
Hole Diameter: 8" Sampling Method Drive W Drop: 30"		Elev. G.L. Vt. 140#	The state of the s					
			CME-4	2.00	Logged By; ZB			
			Drilling Co: GEOMAT DRILLING, RIVERSIDE, CA					
Dry Density (pcf)	Depth (ft)	# of Blows (ft)	Moist.	Sample Type	Soil Class	Earth Materials Description Top Soil: Dense grass-vegetation-12"		
	A BANKA KANANANANANANANANANANANANANANANANAN	1,524,57			SM	Dark gray, fine silty sand, grass, vegetation, roots s. moist		
						very loose		
		46 ,			SM	Light brown, fine to coarse silty sand, few gravel, s. moist,		
	5					medium dense, 27% passing #200 sieve		
104.0		17	7.7		SM	Light brown, fine silty sand, moist, med. dense		
	10					27% passing #200 sieve		
	`							
	1.5	9			ML	Olive gray, fine sandy clayey silt, moist, stiff		
	15							
		13		•	ML	Olive gray, fine sandy clayey silt, moist, stiff		
	20		.					
		20		•	ML	Olive gray, fine sandy clayey silt, moist, very stiff		
	25							
						End of Boring @ 25 feet Depth		
						No Groundwater Encountered		
						Boring Backfilled		

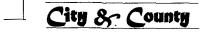




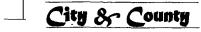
Drop: 30"								
Drop: 30"	lethod	A Part of the Control	Elev. G.L.	Location: 12594 ROSWELL AVE., CHINO, CA				
Dry		Sampling Method Drive V		CME-45		Logged By: ZB		
Dry Density	4.445248648666			Drilling Co: GJ		OMAT DRILLING, RIVERSIDE, CA		
(pcf)	Depth (ft)	# of Blows (ft)	Moist. (%)	Sample Type	Soil Class	Earth Materials Description Top Soil: Dense grass-vegetation-12"		
					SM	Dark gray, fine silty sand, grass, vegetation, roots s. moist		
						very loose		
	5	31			SM	Brown, fine silty sand, poorly graded, v. moist, med.		
						dense, 27% passing #200 sieve		
	10	14			ML	Olive gray, fine sandy clayey silt, moist, stiff		
	15	9	,	•	ML	Olive gray, fine sandy clayey silt, moist, stiff		
	20	13			ML	Olive gray, fine sandy clayey silt, moist, stiff		
						dense		
	25	14		•	ML	Olive gray, fine sandy clayey silt, moist, stiff		
			<u> </u>					
	30	17			ML	Olive gray, fine sandy clayey silt, moist, very stiff		



Job # J&P2018037P1			08/12/18 Elev. G.L. Vt. 140#	Client: SRI SAI RAM MANDIR				
Hole Diameter: 8" Sampling Method Drive W		Locatio		n:12594 R	ROSWELL AVE., CHINO, CA			
		CME-45		Logged By: ZB				
Drop: 30"				Drilling	Co: GE	OMAT DRILLING, RIVERSIDE, CA		
Dry Density (pcf)	Depth (ft)	# of Blows (ft)	Moist. (%)	Sample Type	Soil Class	Earth Materials Description Top Soil: Dense grass-vegetation-12"		
	30	17		•	ML	Olive gray, fine sandy clayey silt, moist, very stiff		
	35	13			ML	Olive gray, fine sandy clayey silt, moist, stiff		
						dense, 27% passing #200 sieve		
	40	11			ML	Olive gray, fine sandy clayey silt, moist, stiff		
						End of Boring @ 40 feet Depth		
<u> </u>	<u> </u>					No Groundwater Encountered		
		:				Boring Backfilled		
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		}	}					



Job # J&P2018037P1 (08/12/18 Elev. G.L. Wt. 140#	Client: SRI SAI RAM MANDIR Location: 12594 ROSWELL AVE., CHINO, CA				
Hole Diameter: 8" Sampling Method Drive V								
		CME-45		Logged By: ZB				
Drop: 30"				Drilling	Drilling Co: GEOMAT DRILLING, RIVERSIDE, CA			
Dry Density (pcf)	Depth (ft)	# of Blows (ft)	Moist.	Sample Type	Soil Class	Earth Materials Description Top Soil: Dense grass-vegetation-12"		
A-1000-100 - 14 - 14 - 14 - 14 - 14 - 14			28		SM	Dark gray, fine silty sand, grass, vegetation, roots s. moist		
						very loose		
		28			SM	Lt. brown, fine silty sand, poorly graded, s. moist, med.		
	5					dense,		
	-	,						
98.4		33	4.4		SM	Olive gray, fine silty sand, poorly graded, s. moist, med.		
	10					dense, 23% passing #200 sieve		
		13	17.8	•	ML	Olive gray, fine sandy clayey silt, moist, stiff		
	15		1			57% passing #200 sieve		
			.					
		21		•	SM	Olive gray, fine silty sand, poorly graded, moist, medium		
	20					dense		
	<u> </u>		-					
		24	7.3	•	SM	Olive gray, fine silty sand, poorly graded, moist, medium		
	25	j	İ		İ	Dense, 33% passing #200 sieve		
		İ				End of Boring @ 25 feet Depth		
						No Groundwater Encountered		
						Boring Backfilled		



Soil Engineering
And Testing

Job# J&P2018037P1 Hole Diameter: 8" Sampling Method Drive V Drop: 30"		08/12/18	Client: SRI SAI RAM MANDIR Location:12594 ROSWELL AVE., CHINO, CA				
		Elev. G.L.					
			CME-45		Logged By: ZB		
			Drilling	Co: GE	OMAT DRILLING, RIVERSIDE, CA		
Dry Density (pcf)	Depth (ft)	# of Blows (ft)	Moist.	Sample Type	Soil Class	Earth Materials Description Top Soil: Dense grass-vegetation-12"	
					SM	Dark gray, fine silty sand, grass, vegetation, roots s. moist	
						very loose	
	5	21			SM	Brown, fine silty sand, poorly graded, v. moist,	
						medium dense, 27% passing #200 sieve	
91.6	10	14	16.8		ML	Olive gray, fine sandy clayey silt, moist, stiff	
						,	
101.0	15	21	16.0		SM	Olive gray, fine silty sand, poorly graded, moist, medium	
						dense	
-		1]			
.	20	9			ML	Olive gray, fine sandy clayey silt, moist, stiff	
	25	21		•	SM	Olive gray, fine silty sand, poorly graded, moist, medium	
						dense	
	30	29			SM	Olive gray, fine silty sand, poorly graded, moist, dense	
5		bed Ring	Comusts			Giron Garage Soil Conincari	

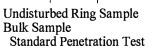
City & County

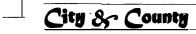
Soil Engineering
And Testing

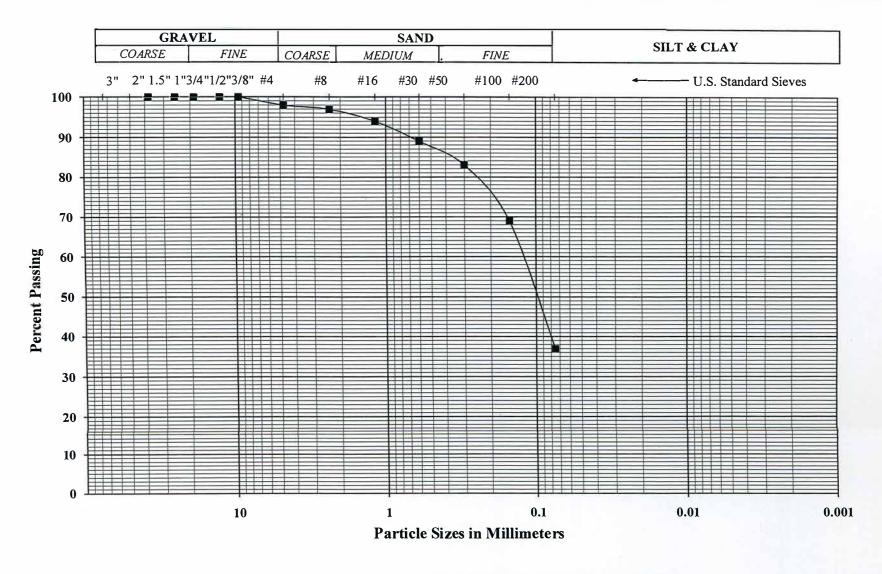
Job # J&P2018037P1 Hole Diameter: 8"			Client: SRI SAI RAM MANDIR					
			Location	Location:12594 ROSWELL AVE., CHINO, CA				
Sampling Method Drive V								
	l.	Drilling Co: GEOMAT DRILLING, RIVERSIDE, CA						
Depth (ft)	# of Blows (ft)	Moist. (%)	Sample Type	Soil Class	Earth Materials Description Top Soil: Dense grass-vegetation-12"			
30				SM	Dark gray, fine silty sand, grass, vegetation, roots s. moist			
					very loose			
	16	15.7		ML	Olive gray, fine sandy clayey silt, moist, very stiff			
- 					53% passing #200 sieve			
35								
	12	20.0		ML	Olive gray, fine sandy clayey silt, moist, stiff			
					58% passing #200 sieve			
40								
					End of Boring @ 40 feet Depth			
					No Groundwater Encountered			
					Boring Backfilled after Percolation Testing			
					_			
				1				
		<u> </u>	1		<u> </u>			
				<u> </u>				
	•]	-						
		,						
	Depth (ft) 30	eter: 8" Wethod Drive V Depth # of (ft) Blows (ft) 30 16 12	Depth	eter: 8" Elev. G.L. Location Wethod Drive Wt. 140# CME-4: Drilling Depth # of Blows (%) Type 16 15.7	eter: 8" Elev. G.L. Location:12594 I Wethod Drive Wt. 140# CME-45 Drilling Co: GE Depth # of Blows (%) Type Class 30 SM 16 15.7 ML 35 ML			



<u> γ</u>			08/12/18	tinuous from 30') Client: SRI SAI RAM MANDIR				
				1.000007070		ROSWELL AVE., CHINO, CA		
Sampling Method Drive W		1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	CME-4					
		, 17UII	99					
Dry	Depth	# of	Moist.	Drilling Co: GEOMAT DRILLING, RIVERSIDE, CA Sample Soil Earth Materials Description				
Density (pcf)	(ft)	Blows (ft)		Type Type	Class	Earth Materials Description Top Soil: Dense grass-vegetation-12"		
	30	29		•	SM	Olive gray, fine silty sand, poorly graded, moist, dense		
	35	9		•	ML	Olive gray, fine sandy clayey silt, moist, stiff		
						53% passing #200 sieve		
	40	21		•	ML	Olive gray, fine sandy clayey silt, moist, stiff		
						58% passing #200 sieve		
						End of Boring @ 40 feet Depth		
÷						No Groundwater Encountered		
						Boring Backfilled after Percolation Testing		
						•		
		-						







Sample Identification: T-1 @ -5'

Soil Type:Olive gray, fine silty sand SM)

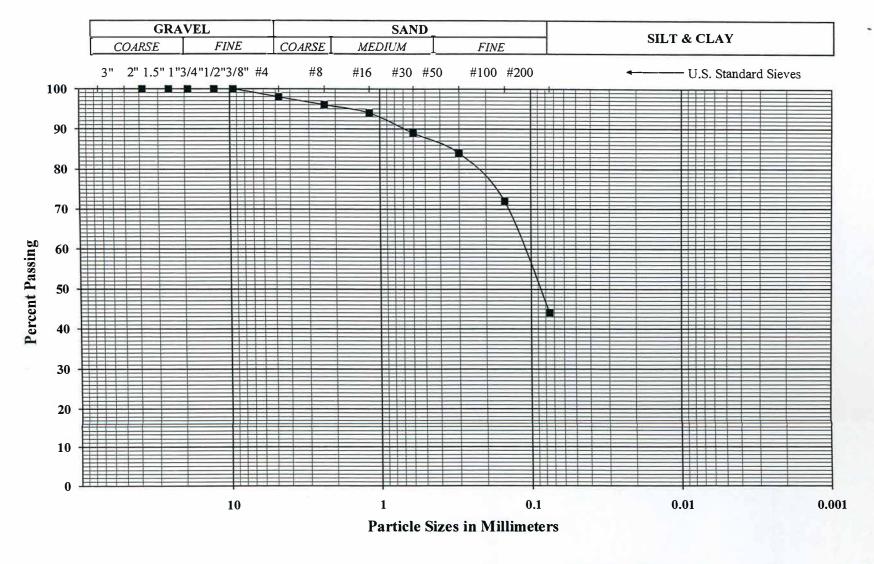
Location: 12954 ROISWELL AVE., CHINO, CA

4.90%

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GRAIN SIZE DISTRIBUTION CURVE

PROJECT No. J&P2018037P1



Sample Identification: T-2 @ -8'

Soil Type:Olive gray, fine silty sand SM)

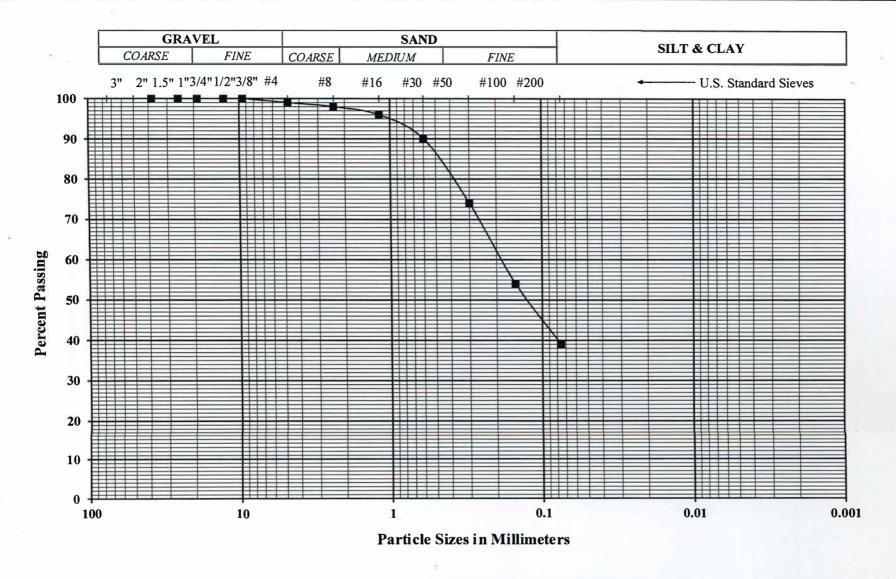
Location: 12954 ROISWELL AVE., CHINO, CA

5.20%

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GRAIN SIZE DISTRIBUTION CURVE

PROJECT No. J&P2018037P1



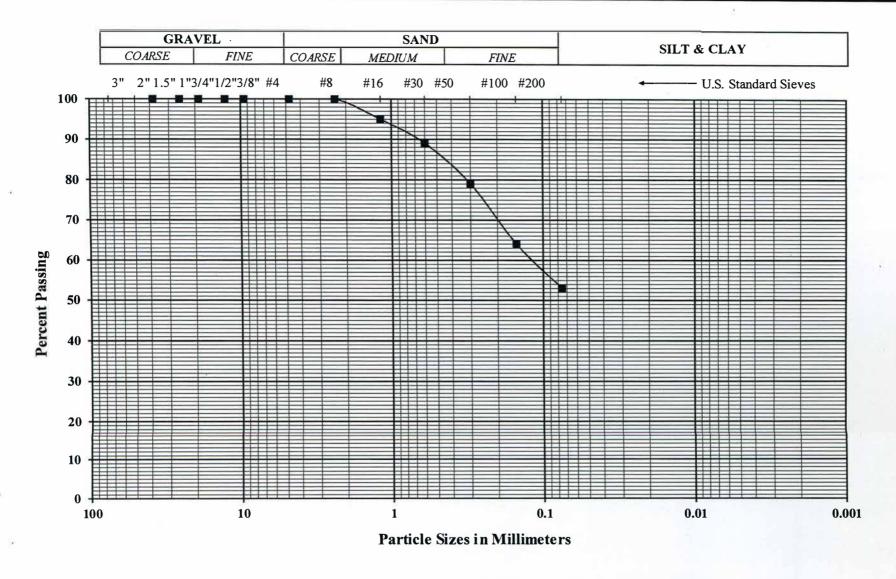
Sample Identification: B-1 (P-1) @ -28'
Location: 12954 ROISWELL AVE., CHINO, CA

Soil Type:Olive gray, fine silty sand (SM) 8.00%

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GRAIN SIZE DISTRIBUTION CURVE

PROJECT No. J&P2018037P1



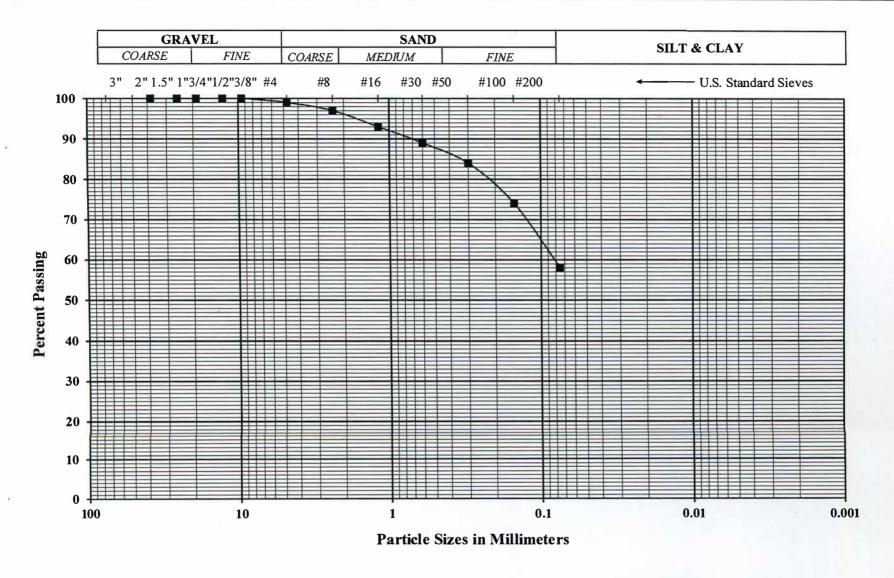
Sample Identification: B-1 (P-1) @ -33'
Location: 12954 ROISWELL AVE., CHINO, CA

Soil Type: Brown, fine sandy clayey silt (ML) 15.70%

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GRAIN SIZE DISTRIBUTION CURVE

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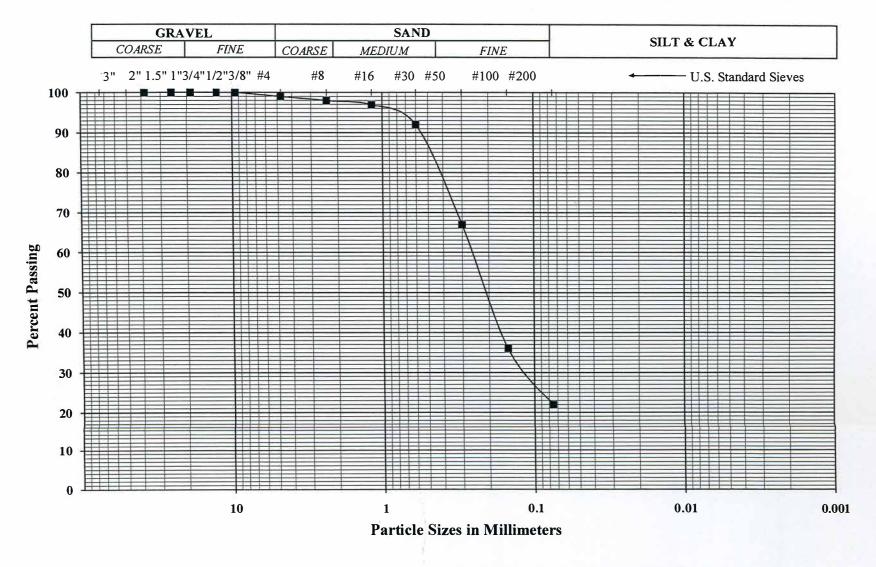
Sample Identification: B-1 (P-1) @ -38'
Location: 12954 ROISWELL AVE., CHINO, CA

Soil Type: Brown, fine sandy clayey silt (ML) 20.00%

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GRAIN SIZE DISTRIBUTION CURVE

PROJECT No. J&P2018037P1



Sample Identification: B-4 @ -9'

Soil Type:Olive gray, fine silty sand (SM)

Location: 12954 ROISWELL AVE., CHINO, CA

4.40%

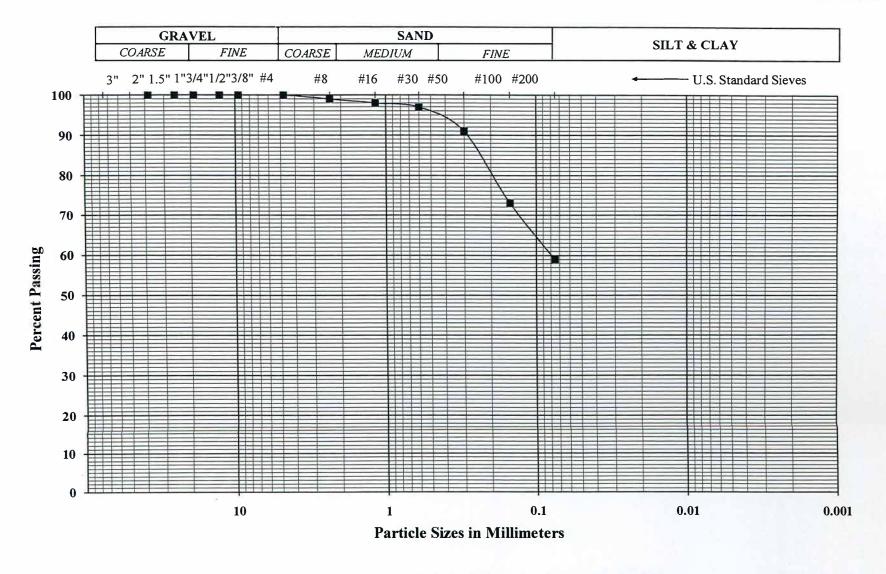
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GRAIN SIZE DISTRIBUTION CURVE

PROJECT No.

SRI SAI RAM MANDIR

J&P2018037P1



Sample Identification: B-4 @ -14'

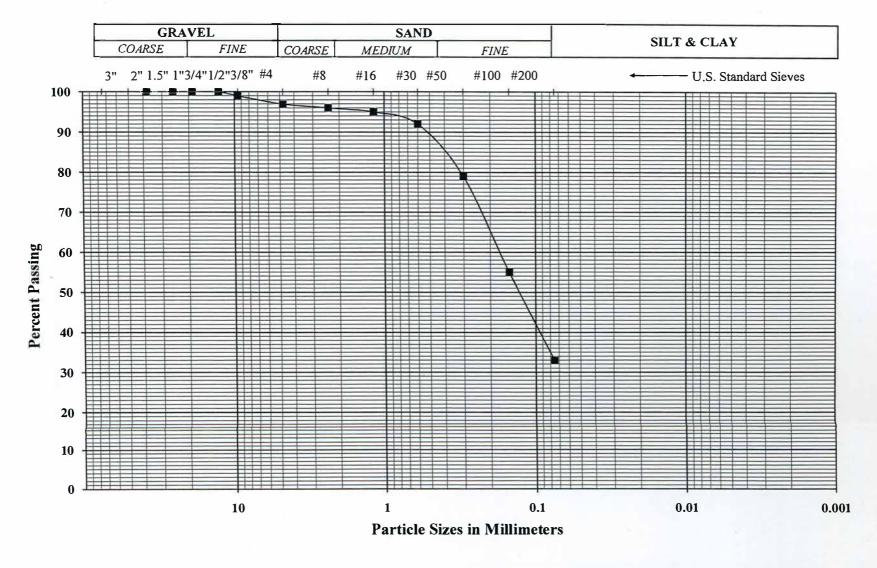
Location: 12954 ROISWELL AVE., CHINO, CA

Soil Type:Olive gray, fine sandy silt (ML)

17.80%

City & County Soil Engineering And Testing **GRAIN SIZE DISTRIBUTION CURVE**

PROJECT No. J&P2018037P1



Sample Identification: B-4 @ -24'

Location: 12954 ROISWELL AVE., CHINO, CA

Soil Type:Olive gray, fine silty sand (SM)

7.30%

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GRAIN SIZE DISTRIBUTION CURVE

PROJECT No. J&P2018037P1