



March 3, 2023
Project No. E080-060

ENGINEERING RESOURCES OF SOUTHERN CALIFORNIA, INC.

1861 West Redlands Boulevard
Redlands, California 92373

Attention: Mr. Moe Ahmadi, P.E.

Subject: Compaction Testing
Soboba Nation-Sovovatum Village
2214 Lake Park Drive, San Jacinto

Dear Mr. Ahmadi:

This report summarizes the results of compaction testing performed for the referenced project from September 20, 2021 through February 14, 2023. Testing was conducted on an intermittent basis. Our services were intended to provide compaction test results only.

The following references were used during our testing and observation:

- Report entitled, "Geotechnical Investigation, Soboba Horseshoe Service Center, Phase I, SWC Lake Park Drive and Soboba Road, Soboba Nation, San Jacinto, California, prepared by Inland Foundation Engineering, Inc., dated May 13, 2020, Project No. E080-055.
- Plan entitled, "Soboba Horseshoe Village-Phase 1, Site Improvements, 2214 Lake Park Drive, San Jacinto, CA 92583", prepared by KTG Architecture + Planning, Bid Set dated March 11, 2021.
- Plan entitled, "Soboba Horseshoe Village-Phase 1, 2214 Lake Park Drive Suite "A" and "B", San Jacinto, CA 92583", prepared by KTG Architecture + Planning, Bid Set dated March 11, 2021.
- Plan entitled, "Soboba Master Plan Gas and RV Fueling Station, 2214 Lake Park Drive Suite San Jacinto, CA 92583", prepared by KTG Architecture + Planning, Bid Set dated March 11, 2021.
- Plan entitled, "City of San Jacinto, Economic Development Corp. in the County of Riverside, CA, Soboba Band of Luiseño Indians, Lake Park Drive and South Soboba Road Street Widening Plan", prepared by ERSC, Bid Set dated March 11, 2021.

Based on our compaction test results, it is our opinion that the compaction has been accomplished in accordance with the applicable requirements. However, actual soil types in the field and compaction effort may vary between test locations.

Field density testing was performed in accordance with the ASTM D6938 test method. The minimum acceptable degree of compaction for soil and aggregate base was 90 and 95 percent of the maximum dry density, respectively.

Asphalt concrete pavement density tests were performed per the current ASTM D2950 test method. The minimum acceptable degree of compaction was 95 percent of the maximum density.

Compaction testing of the following was performed:

- Electrical trench backfill and Edison box pad,
- Plumbing trench backfill,
- Storm drain backfill,
- C-Store footings and gas tank,
- Sewer line, water line and gas line trench backfill,
- Grease interceptor, trash enclosure and clarifying tank,
- Curbs, gutter and sidewalk, subgrade through finish grade
- On site and off site pavement subgrade through finish grade
- Asphalt concrete pavement and
- Future development area

Areas where testing indicated insufficient compaction, additional compactive effort was applied with the adjustment of moisture content where necessary until satisfactory compaction was achieved. Retests were then performed in order to verify satisfactory compaction.

The results of our testing are presented on the “Summary of Field Density Testing.”

The maximum dry density of soil and aggregate base was evaluated per the current ASTM D1557 test method and the maximum asphalt concrete density was evaluated per the current ASTM D2726 and ASTM D1561 test method. The results are as follows:

Soil Type	Soil Description	Maximum Dry Density (lbs/ft ³)	Optimum Moisture Content (%)
1	Silty sand, brown	131.0	9.1
2	Silty sand, import	128.0	8.9
3	Silty sand, very fine, brown	122.0	12.0
4	Silty clayey sand, import	127.0	10.0
5	Class 2 aggregate base	141.0	4.8
7	Class 2 aggregate base	141.0	5.5
9	Class 2 aggregate base	140.5	7.0
11	Class 2 aggregate base, import	142.0	5.5
AC-1	½ Inch HMA Type III C2	148.2	-
AC-2	½ Inch HMA Type III C2	149.2	-
1	¾ Inch HMA Type III B3, Plant Max	150.0	-
2	¾ Inch HMA Type III B3, Plant Max	148.3	-
3	PG 64-10, Plant Max	149.5	-

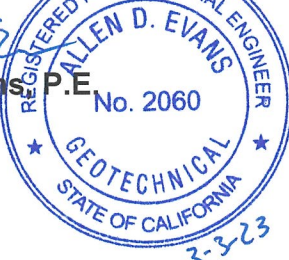
Our services were conducted in a manner consistent with the standard of care exercised by reputable geotechnical consultants practicing in this or similar localities. No other warranty, either expressed or implied, is made as to the professional opinions included in this report.

We appreciate being of service to you on this project. If you have any questions, please contact our office.

Respectfully,

INLAND FOUNDATION ENGINEERING, INC.

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



ADE:es
Distribution: Addressee

SUMMARY OF FIELD DENSITY TESTING
Engineering Resources of Southern California, Inc.
Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
ELECTRICAL TRENCH BACKFILL									
Building B									
1	09-20-21	South End	3.0	3.0-3.5	6.0	124.6	95	1	
2	09-20-21	North End	3.0	3.0-3.5	6.7	126.7	97	1	
Building A - C Store									
3	09-28-21	North End	3.0	1.0-1.5	12.1	120.7	92	1	
4	09-28-21	South End	3.0	1.0-1.5	12.7	118.9	91	1	
5	09-30-21	Center	3.0	1.0-1.5	5.8	122.0	93	1	
6	09-30-21	Southwest	3.0	1.0-1.5	9.5	119.3	91	1	
Edison Electrical Station									
7	11-01-21	10 Feet East	3.0	2.2-2.5	8.3	121.8	93	1	
8	11-01-21	10 Feet East	S.G.	0.0-0.5	8.1	117.7	90	1	
9	11-01-21	19 Feet Southwest	S.G.	0.0-0.5	10.5	126.1	96	1	
10	11-01-21	27 Feet Southwest	S.G.	0.0-0.5	5.6	119.3	91	1	
11	11-01-21	20 Feet West	4.0	2.0-2.5	8.1	120.2	92	1	
12	11-01-21	20 Feet West	4.0	1.0-1.5	8.5	119.7	91	1	
Building A - C Store									
13	11-09-21	East of North End	S.G.	2.5-3.0	8.3	117.8	90	1	
14	11-09-21	East of North End	S.G.	0.5-1.0	9.0	122.8	94	1	
15	11-10-21	Southeast of Southeast Corner	S.G.	1.0-1.5	8.8	118.7	91	1	
16	11-10-21	Southeast of Southeast Corner	S.G.	0.0-0.5	9.9	121.5	93	1	
Edison Electrical Station									
17	11-10-21	South of Pad	2.0	2.0-2.5	6.9	116.8	89	1	18
18	11-10-21	Retest of Test No. 17	2.0	2.0-2.5	9.5	117.5	90	1	
Building A - C Store									
19	11-11-21	2 Feet East of Southeast Corner	2.0	2.0-2.5	6.4	125.6	96	1	
20	11-11-21	7 Feet East of Southeast Corner	S.G.	0.0-0.5	7.4	117.4	90	1	
Edison Electrical Station									
21	11-11-21	South of Pad	S.G.	0.0-0.5	7.8	120.4	92	1	
22	11-11-21	North of Pad	S.G.	0.0-0.5	8.4	122.6	94	1	
EDISON BOX PAD									
1	11-17-21	North Side at Center	S.G.	4.0	8.4	115.4	88	1	2
2	11-17-21	Retest of Test No. 1	S.G.	4.0	7.7	118.2	90	1	
3	11-17-21	East Side 7" from Center	S.G.	4.0	7.5	119.9	92	1	
4	11-17-21	South Side at Center	S.G.	4.0	8.2	118.6	91	1	
5	11-17-21	Far South Pads of Building B	S.G.	6.0	5.1	122.3	93	1	
6	12-07-21	South of Generator	F.G.	4.0	6.1	115.0	88	1	7
7	12-08-21	Retest of Test No. 6	F.G.	6.0	4.6	118.7	91	1	

SUMMARY OF FIELD DENSITY TESTING
Engineering Resources of Southern California, Inc.
Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
8	12-08-21	North of Generator	F.G.	4.0	6.0	117.8	90	1	
ELECTRICAL TRENCH BACKFILL									
Building A - C Store									
23	12-13-21	West of Northwest Corner	S.G.	0.0-0.5	5.1	111.6	85	1	30
Fuel Station Island									
24	12-16-21	Northeast Corner	2.0	0.0-0.5	10.1	120.5	92	1	
25	12-16-21	West Side, Center	2.0	0.0-0.5	11.3	111.5	85	1	26
26	12-16-22	Retest of Test No. 25	2.0	0.0-0.5	10.8	118.1	90	1	
27	12-16-21	Southeast Corner	2.0	0.0-0.5	10.5	119.1	91	1	
Building A - C Store									
28	12-16-21	West of Southwest Corner	3.0	1.0-1.5	10.3	117.6	90	1	
29	12-16-21	West of Southwest Corner	3.0	0.0-0.5	10.7	118.8	91	1	
30	12-16-21	Retest of Test No. 23	3.0	0.0-0.5	9.5	119.7	91	1	
31	02-02-22	West of Northwest Corner	0.0	0.0-0.5	6.7	110.6	84	1	38
32	02-02-22	South of Southwest Corner	0.0	0.0-0.5	7.3	114.1	87	1	37
Building A - C Store									
33	02-11-22	East	2.0	0.0-0.5	6.6	120.2	95	4	
Center Fuel Station Island									
34	02-11-22	East	2.0	0.0-0.5	7.1	124.9	98	4	
35	02-11-22	West	2.0	0.0-0.5	8.2	123.0	97	4	
Building A - C Store									
36	02-11-22	South	2.0	0.0-0.5	7.6	118.2	97	3	
37	02-11-22	Retest of Test No. 32	2.0	0.0-0.5	7.2	116.7	96	3	
38	02-11-22	Retest of Test No. 31	2.0	0.0-0.5	4.9	116.8	96	3	
39	02-11-22	South, Northwest Corner	2.0	0.0-0.5	6.1	118.4	97	3	
PLUMBING TRENCH BACKFILL									
1	09-20-21	North End Building A	2.0	2.0-2.5	7.6	119.7	91	1	
2	09-20-21	South End Building A	2.0	2.0-2.5	8.1	123.8	95	1	
3	09-24-21	North End Building A	2.0	1.0-1.5	8.8	125.9	96	1	
4	09-24-21	Southeast Quadrant Building A	2.0	1.0-1.5	10.6	125.1	95	1	
5	09-24-21	North End Building B	S.G.	0.0-0.5	11.4	128.1	98	1	
6	09-24-21	South End Building B	S.G.	0.0-0.5	11.9	125.8	96	1	
7	09-24-21	East Side Building B	S.G.	0.0-0.5	11.0	129.6	99	1	
8	09-28-21	Fire Line Trench, Northeast Building A	S.G.	0.0-0.5	12.0	119.7	91	1	
9	09-30-21	Southeast Corner of Convenience Store	2.5	0.5-1.0	11.4	121.6	93	1	

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Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
STORM DRAIN BACKFILL									
96 Inch RCP									
1	09-22-21	Station 12+20	8.0	8.0-8.5	10.9	121.2	93	1	
2	09-22-21	Station 11+40	8.0	6.0-6.5	9.8	124.8	95	1	
3	09-22-21	Station 11+60	8.0	4.0-4.5	11.3	124.1	95	1	
4	09-22-21	Station 10+75	8.0	4.0-4.5	11.9	126.4	96	1	
5	09-22-21	Station 10+40	8.0	6.0-6.5	9.4	123.0	94	1	
6	09-23-21	Station 10+85	8.0	2.0-2.5	11.4	123.4	94	1	
7	09-23-21	Station 11+50	8.0	2.0-2.5	12.7	125.2	96	1	
8	09-23-21	Station 11+50	S.G.	0.0-0.5	9.4	121.9	93	1	
9	09-23-21	Station 12+00	S.G.	2.0-2.5	9.0	124.3	95	1	
10	09-30-21	Station 10+30	3.5	3.5-4.0	7.2	122.4	93	1	
11	09-30-21	Station 12+80	13.0	7.0-7.5	7.2	117.4	92	2	
12	09-30-21	Station 13+00	13.0	9.0-9.5	7.6	117.6	92	2	
13	09-30-21	Station 13+10	13.0	5.0-5.5	9.0	120.1	94	2	
14	09-30-21	Station 13+40	13.0	11.0-11.5	5.6	117.2	92	2	
15	09-30-21	Station 12+85	13.0	2.0-2.5	7.4	121.7	95	2	
16	09-30-21	Station 13+25	12.0	4.0-4.5	8.0	118.1	92	2	
17	09-30-21	Station 13+10	11.0	7.0-7.5	7.3	121.5	95	2	
18	09-30-21	Station 13+60	11.0	3.0-3.5	7.7	120.3	94	2	
19	09-30-21	Station 13+85	11.0	9.0-9.5	9.7	120.2	94	2	
20	09-30-21	Station 14+10	11.0	5.0-5.5	9.3	117.4	92	2	
21	09-30-21	Station 14+00	11.0	1.0-1.5	9.4	119.5	93	2	
22	10-05-21	Station 14+50	14.0	4.0-4.5	10.6	118.1	90	1	
23	10-05-21	Station 15+00	14.0	6.0-6.5	11.1	119.7	91	1	
24	10-05-21	Station 15+00	14.0	4.0-4.5	9.7	125.5	96	1	
25	10-05-21	Station 14+60	14.0	2.0-2.5	10.4	119.2	91	1	
26	10-05-21	Station 15+10	14.0	2.0-2.5	12.8	122.3	93	1	
27	10-13-21	Station 15+20	16.0	6.0-6.5	12.1	126.7	97	1	
28	10-13-21	Station 15+75	16.0	6.0-6.5	10.4	129.6	99	1	
29	10-13-21	Station 15+25	16.0	4.0-4.5	10.8	127.1	97	1	
30	10-13-21	Station 15+85	16.0	2.0-2.5	10.9	129.7	99	1	
31	10-15-21	Station 15+95	16.0	2.0-2.5	9.6	126.9	97	1	
32	10-15-21	Station 16+00	16.0	6.0-6.5	10.1	124.4	95	1	
33	10-15-21	Station 16+25	16.0	8.0-8.5	9.9	129.5	99	1	
34	10-18-21	Station 16+50	16.0	6.0-6.5	10.4	124.2	95	1	
35	10-18-21	Station 16+65	16.0	4.0-4.5	11.1	127.3	97	1	
36	10-18-21	Station 16+80	16.0	2.0-2.5	9.9	123.2	94	1	
37	10-22-21	Station 16+82	16.0	6.0-6.5	9.9	122.2	93	1	

SUMMARY OF FIELD DENSITY TESTING
Engineering Resources of Southern California, Inc.
Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
38	10-22-21	Station 16+82	16.0	4.0-4.5	9.4	122.1	93	1	
39	10-22-21	Station 16+83	16.0	2.0-2.5	7.5	126.9	97	1	
40	10-22-21	Station 16+83	S.G.	0.0-0.5	9.4	122.0	93	1	
6 Inch Storm Drain									
41	11-03-21	Southeast of Convenience Store	S.G.	0.0-0.5	9.7	120.2	92	1	
42	11-03-21	Northeast of Convenience Store	S.G.	0.0-0.5	8.7	118.9	91	1	
43	11-03-21	East of Building A	S.G.	0.0-0.5	10.4	122.0	93	1	
44	11-10-21	North of Gas Tank	S.G.	0.5-1.0	7.5	126.3	96	1	
45	11-10-21	South End, North of Gas Tank	S.G.	0.5-1.0	8.4	118.5	90	1	
46	11-10-21	Perpendicular to Gas Tank	S.G.	0.5-1.0	7.2	126.2	96	1	
47	11-10-21	Middle Trench	S.G.	0.5-1.0	8.4	120.3	92	1	
48	11-30-21	South Side	7.0	3.0-3.5	9.9	118.0	90	1	
49	11-30-21	South Side	S.G.	1.0-1.5	8.9	119.2	91	1	
50	11-30-21	North Side	7.0	3.0-3.5	9.2	118.2	90	1	
51	11-30-21	North Side	S.G.	1.0-1.5	10.1	121.5	93	1	
52	11-30-21	East Side	7.0	3.0-3.5	12.1	118.0	90	1	
53	11-30-21	East Side	S.G.	1.0-1.5	4.1	127.6	97	1	
36 INCH RCP STORM DRAIN									
Lake Park Drive									
1	09-30-22	Northbound East Side	10.0	8.0-8.5	18.2	105.4	86	3	2
2	09-30-22	Retest of Test No. 1	10.0	8.0-8.5	17.5	109.5	90	3	
3	09-30-22	Northbound Middle	10.0	6.0-6.5	3.9	98.9	81	3	4
4	09-30-22	Retest of Test No. 3	10.0	6.0-6.5	6.0	118.4	97	3	
5	09-30-22	Northbound West Side	10.0	4.0-4.5	7.0	116.8	92	4	
6	09-30-22	Northbound West Side	10.0	6.0-6.5	7.5	118.5	93	4	
7	09-30-22	Northbound East Side	10.0	2.0-2.5	6.7	123.8	97	4	
8	09-30-22	Northbound West Side	10.0	2.0-2.5	8.6	120.0	94	4	
9	10-05-22	Lake Park Drive	10.0	8.0-8.5	8.8	117.3	92	4	
10	10-05-22	Lake Park Drive	10.0	6.0-6.5	10.6	115.2	91	4	
11	10-05-22	Lake Park Drive	10.0	4.0-4.5	7.6	117.7	93	4	
12	10-05-22	Lake Park Drive	10.0	2.0-2.5	8.0	118.9	94	4	
13	10-05-22	Lake Park Drive	10.0	0.0-0.5	10.7	121.8	96	4	
14	12-01-22	Lake Park Drive	10.0	0.0-0.5	7.7	122.5	95	8	
15	12-01-22	Lake Park Drive	10.0	0.0-0.5	4.0	138.6	98	11	
Access Road & Lake Park Drive									
16	12-02-22	Eastbound Lane	S.G.	0.0-0.5	8.5	115.4	89	8	17
17	12-02-22	Retest of Test No. 16	S.G.	0.0-0.5	6.8	120.2	93	8	
18	12-02-22	Eastbound Lane	S.G.	0.0-0.5	5.4	134.3	95	11	

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
19	12-02-22	Westbound Lane	S.G.	0.0-0.5	11.0	123.4	95	8	
20	12-02-22	Westbound Lane	S.G.	0.0-0.5	5.3	135.7	96	11	
C-STORE									
Footings									
1	10-04-21	Grid Line A, North Half	1.0	0.0-0.5	8.4	124.1	95	1	
2	10-04-21	Grid Line B, South Half	1.0	0.0-0.5	7.7	127.9	98	1	
3	10-04-21	Grid Line 1, Middle	1.0	0.0-0.5	9.1	125.6	96	1	
4	10-04-21	Grid Line 6, Middle	1.0	0.0-0.5	8.1	128.8	98	1	
Gas Tank									
1	11-03-21	Southeast Area at Center	15.0	15.0-15.5	8.1	110.3	84	1	Bottom
2	11-09-21	Northwest Area at Center	S.G.	2.0-2.5	8.4	123.8	95	1	
3	11-09-21	Northeast Area at Center	S.G.	2.0-2.5	8.3	122.2	93	1	
4	11-09-21	Southwest Area at Center	S.G.	2.0-2.5	6.8	120.9	92	1	
5	11-09-21	South Central Area at Center	S.G.	2.0-2.5	8.0	119.0	91	1	
6	11-09-21	Southeast Area at Center	S.G.	2.0-2.5	7.5	128.7	98	1	
SEWER LINE TRENCH BACKFILL									
8 INCH SEWER MAIN									
1	10-14-21	60 Feet East from West End	3.0	1.0-1.5	10.4	124.5	95	1	
2	10-14-21	150 Feet East from West End	3.0	1.0-1.5	9.6	126.7	97	1	
3	10-14-21	240 Feet East from West End	3.0	1.0-1.5	8.7	122.7	94	1	
4	10-14-21	310 Feet East from West End	S.G.	0.0-0.5	9.4	124.5	95	1	
5	10-14-21	100 Feet East from West End	S.G.	0.0-0.5	11.1	128.0	98	1	
6	10-14-21	250 Feet East from West End	S.G.	0.0-0.5	12.0	126.9	97	1	
Laterals at Fuel Station Island									
7	10-28-21	North Lateral	3.0	1.0-1.5	8.1	122.8	94	1	
8	10-28-21	Second Lateral from North	3.0	1.0-1.5	6.9	124.3	95	1	
9	10-28-21	Third Lateral from North	3.0	1.0-1.5	7.4	123.3	94	1	
10	10-28-21	South Lateral	3.0	1.0-1.5	9.4	126.7	97	1	
Grease Interceptors									
11	11-05-21	North	3.0	2.0-2.5	6.2	121.5	93	1	
12	11-05-21	North	3.0	2.0-2.5	7.4	125.3	96	1	
13	11-05-21	Middle	3.0	2.0-2.5	7.0	134.0	100	1	
WATER LINE TRENCH BACKFILL									
Water Main Line									
1	10-21-21	Station 2+25	1.5	1.5-2.0	9.8	125.0	95	1	
2	10-21-21	Station 2+55	1.5	1.5-2.0	10.7	125.9	96	1	

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Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
3	10-21-21	Station 3+10	1.5	1.5-2.0	8.4	127.5	97	1	
4	10-22-21	Station 5+00	S.G.	0.0-0.5	8.1	118.5	90	1	
5	10-22-21	Station 6+42	S.G.	0.0-0.5	11.3	118.9	91	1	
6	10-22-21	Station 9+61	S.G.	0.0-0.5	7.2	119.7	91	1	
7	10-22-21	Station 11+00	S.G.	0.0-0.5	6.0	124.3	95	1	
Building B									
8	11-09-21	Fire Hydrant East of Building	S.G.	1.0-1.5	5.4	127.4	97	1	
9	11-09-21	Water Trench East of Building	S.G.	1.0-1.5	7.8	121.0	92	1	
Fire Hydrant									
10	02-11-22	South of Gas Pump	F.G.	1.0-1.5	8.9	108.3	89	3	14
11	02-11-22	South of Gas Pump	F.G.	0.0-0.5	5.5	93.5	77	3	15
12	02-11-22	Northeast of Trash Enclosure	F.G.	1.0-1.5	8.6	115.3	95	3	
13	02-11-22	Northeast of Trash Enclosure	F.G.	0.0-1.5	6.5	109.9	90	3	
14	02-11-22	Retest of Test No. 10	F.G.	1.0-1.5	9.1	117.6	96	3	
15	02-11-22	Retest of Test No. 11	F.G.	0.0-0.5	8.8	109.3	90	3	
Lake Park Drive									
1	10-17-22	North Side Planter	3.5	0.0-0.5	8.3	124.4	98	4	
2	10-18-22	20 Feet North of Curb	4.0	2.0-2.5	8.9	122.6	97	4	
3	10-18-22	20 Feet North of Curb	4.0	0.0-0.5	9.3	114.4	90	4	
4	10-19-22	20 Feet South of South Curb Face	2.0	0.5-1.0	10.9	107.2	84	4	5
5	10-20-22	Retest of Test No. 4	3.0	1.0-1.5	9.7	113.7	90	4	
6	10-26-22	West Side of Road	1.0	1.0-1.5	8.1	114.6	90	4	
7	10-26-22	West Side of Road	1.0	1.0-1.5	7.2	115.2	90	4	
8	10-28-22	20 Feet North of South Curb Face	3.0	1.0-1.5	8.3	114.2	90	4	
9	10-31-22	Intersection of Casino Entrance	2.0	0.0-0.5	7.3	121.0	95	4	
10	11-02-22	2 Inch Irrigation Line	2.0	0.0-0.5	8.7	119.7	94	4	
Towncenter Drive									
11	11-03-22	39 Feet South of Lake Park Drive	3.0	1.0-1.5	8.1	119.2	94	4	
Lake Park Drive									
12	12-01-22	Lake Park Drive		0.0-0.5	9.9	120.5	95	4	
13	12-01-22	Lake Park Drive	6.0	0.0-0.5	4.1	134.6	95	11	
14	12-02-22	Casino Entrance, Eastbound Lane	S.G.	0.0-0.5	9.6	122.5	96	4	
15	12-02-22	Casino Entrance, Westbound Lane	S.G.	0.0-0.5	9.1	124.3	98	4	
16	12-02-22	Casino Entrance, Eastbound Lane	S.G.	0.0-0.5	4.3	135.9	96	11	
17	12-02-22	Casino Entrance, Westbound Lane	S.G.	0.0-0.5	5.6	134.8	95	11	
18	12-05-22	Casino Entrance, Middle	S.G.	0.0-0.5	9.1	124.8	98	4	
19	12-05-22	Casino Entrance, Middle	S.G.	0.0-0.5	2.9	139.2	98	11	
20	12-14-22	6 Inch Blowoff Valve, Station 51+00	5.0	3.0-3.5	7.1	120.5	92	1	
21	12-14-22	6 Inch Blowoff Valve, Station 51+00	5.0	1.0-1.5	5.7	125.7	96	1	

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
GAS LINE TRENCH BACKFILL									
Fuel Station Island									
1	11-10-21	West Side, Middle Area	3.0	3.0-3.5	6.4	120.1	92	1	
2	11-10-21	Center	3.0	3.0-3.5	6.9	123.6	94	1	
3	11-10-21	East Side, Middle Area	3.0	3.0-3.5	6.4	120.9	92	1	
4	11-16-21	West Side, Center	S.G.	1.0-1.5	6.0	105.6	81	1	5
5	11-17-21	Retest of Test No. 4	S.G.	1.0-1.5	9.1	117.4	90	1	
Lake Park Drive									
1	10-11-22	15 Feet from North Curb	4.0	2.0-2.5	4.7	118.7	91	1	
2	10-11-22	15 Feet from North Curb	4.0	0.5-1.0	4.9	122.6	94	1	
3	10-12-22	170 Feet South	3.0	0.0-0.5	9.3	118.2	91	8	
4	10-12-22	130 Feet South	3.0	0.0-0.5	12.5	120.8	93	8	
5	10-12-22	30 Feet South	3.0	0.0-0.5	8.4	118.0	91	8	
Towncenter Drive, Intersection									
6	10-13-22	10 Feet South	3.0	0.0-0.5	7.4	123.9	96	8	
7	10-13-22	25 Feet North	5.0	3.5-4.5	10.9	121.0	92	1	
8	10-13-22	30 Feet North	5.0	2.0-2.5	10.0	120.2	92	1	
9	10-13-22	35 Feet North	5.0	1.0-1.5	10.9	125.4	96	1	
Casino Drive, Intersection									
10	10-14-22	36 Feet North	7.0	0.0-0.5	1.9	133.0	95	9	
11	10-14-22	10 Feet North	4.0	0.0-0.5	11.6	124.5	95	1	
12	10-14-22	5 Feet North	7.0	0.0-0.5	4.5	142.9	100	9	
Towncenter Drive									
13	10-17-22	South End	3.0	0.5-1.0	8.3	124.0	96	8	
14	10-17-22	Southwest	3.0	0.5-1.0	12.4	122.6	95	8	
15	10-17-22	Drive Through, West	6.0	0.0-0.5	2.8	135.8	97	9	
1	12-05-22	Drive Through	S.G.	0.0-0.5	4.8	138.9	98	11	
GREASE INTERCEPTORS									
Center Area									
1	11-05-21	West Side, Far North	4.0	4.0-4.5	7.9	118.0	90	1	
2	11-05-21	East Side, Far North	4.0	4.0-4.5	8.4	117.8	90	1	
3	11-05-21	South Side, Middle	4.0	4.0-4.5	7.7	125.2	96	1	
4	11-05-21	North Side, Middle	4.0	4.0-4.5	6.8	122.9	94	1	
5	11-05-21	East Side, Far North	2.0	2.0-2.5	8.1	121.1	92	1	
6	11-05-21	West Side, Far North	2.0	2.0-2.5	6.6	119.3	91	1	
7	11-05-21	South Side, Middle	2.0	2.0-2.5	7.9	121.2	93	1	
8	11-08-21	North Side, Far North	S.G.	0.0-0.5	6.9	108.5	85	2	9
9	11-08-21	Retest, Test No. 8	S.G.	0.0-0.5	9.5	122.6	96	2	

SUMMARY OF FIELD DENSITY TESTING
Engineering Resources of Southern California, Inc.
Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
10	11-08-21	North Side, Far North	S.G.	0.0-0.5	9.8	119.7	94	2	
TRASH ENCLOSURE									
1	12-07-21	Center	F.G.	0.0-0.5	6.6	122.2	93	1	
2	12-10-21	Center	F.G.	0.0-0.5	11.3	125.2	96	1	
CLARIFYING TANK									
1	03-02-22	Clarifying Tank	3.0	1.0-1.5	13.7	115.0	94	3	
2	03-02-22	Clarifying Tank	3.0	0.0-0.5	12.3	115.4	95	3	
3	03-03-22	Lateral, West of Tank	4.0	2.0-2.5	8.3	121.5	100	3	
4	03-03-22	Lateral, Southeast of Tank	2.0	0.0-0.5	9.0	119.3	98	3	
CURBS AND GUTTERS									
South of Riro Access Road									
1	01-20-22	Station No. 1+04	1.0	1.0-1.5	8.4	112.3	92	3	
2	01-20-22	Station No. 2+04	1.0	1.0-1.5	11.4	113.0	93	3	
3	01-20-22	Station No. 3+04	1.0	1.0-1.5	11.0	114.7	94	3	
4	01-20-22	Station No. 4+04	1.0	1.0-1.5	12.7	113.8	93	3	
5	01-20-22	Station No. 4+55	1.0	1.0-1.5	11.5	115.5	95	3	
6	01-20-22	Station No. 4+86	1.0	1.0-1.5	12.0	106.1	87	3	7
7	01-20-22	Retest of Test No. 6	1.0	1.0-1.5	10.6	110.9	91	3	
8	01-20-22	Station No. 3+05	1.0	1.0-1.5	10.2	110.2	90	3	
9	01-20-22	Station No. 2+44	1.0	1.0-1.5	10.5	109.5	90	3	
East of Riro Access Road									
10	01-20-22	Station No. 2+05	1.0	1.0-1.5	12.3	112.3	92	3	
11	01-20-22	Station No. 1+05	1.0	1.0-1.5	9.6	110.2	90	3	
North of Riro Access Road									
12	01-20-22	Station No. 10+91	1.0	1.0-1.5	9.2	116.4	95	3	
13	01-20-22	Station No. 11+91	1.0	1.0-1.5	10.2	109.8	90	3	
14	01-20-22	Station No. 12+91	1.0	1.0-1.5	10.3	112.5	92	3	
15	01-20-22	Station No. 13+27	1.0	1.0-1.5	8.1	113.9	93	3	
North of Future Development Area									
16	01-20-22	Station No. 10+50	1.0	1.0-1.5	13.7	109.7	90	3	
17	01-20-22	Station No. 9+50	1.0	1.0-1.5	9.7	115.2	94	3	
18	01-20-22	Station No. 8+50	1.0	1.0-1.5	12.4	112.3	92	3	
19	01-20-22	Station No. 7+50	1.0	1.0-1.5	12.8	108.3	89	3	20
20	01-20-22	Retest of Test No. 19	1.0	1.0-1.5	13.0	109.7	90	3	
North of Lake Park Drive									
21	01-20-22	Station No. 6+50	1.0	1.0-1.5	5.3	103.4	85	3	22

SUMMARY OF FIELD DENSITY TESTING
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Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
22	01-20-22	Retest of Test No. 21	1.0	1.0-1.5	4.7	105.1	86	3	23
23	01-20-22	Retest of Test No. 22	1.0	1.0-1.5	5.4	105.0	86	3	28
Parking Lot Stalls, Front of Convenience Store									
24	01-20-22	Station No. 6+59	1.0	1.0-1.5	10.3	96.5	79	3	53
25	01-20-22	Station No. 5+59	1.0	1.0-1.5	13.3	105.5	86	3	54
26	01-20-22	Station No. 4+59	1.0	1.0-1.5	9.2	114.2	94	3	
North of Riro Access Road									
27	01-20-22	Retest of Test No. 12	1.0	1.0-1.5	7.9	113.7	93	3	
North of Lake Park Drive									
28	01-21-22	Retest of Test No. 23	1.0	1.0-1.5	8.9	115.9	95	3	
29	01-21-22	Station No. 5+50	1.0	1.0-1.5	9.4	117.6	96	3	
North of Convenience Store									
30	01-21-22	Station No. 4+50	1.0	1.0-1.5	6.7	120.7	99	3	
Southeast of Edison Electrical Station Pad									
31	01-21-22	Station No. 3+50	1.0	1.0-1.5	10.7	116.6	96	3	
32	01-21-22	Station No. 2+50	1.0	1.0-1.5	10.3	118.9	97	3	
North Side of Towncenter Drive									
33	01-21-22	Station No. 1+00	1.0	1.0-1.5	7.5	112.3	92	3	
34	01-21-22	Station No. 2+00	1.0	1.0-1.5	7.4	116.0	95	3	
35	01-21-22	Station No. 3+00	1.0	1.0-1.5	8.7	113.1	93	3	
36	01-21-22	Station No. 4+00	1.0	1.0-1.5	11.6	115.6	95	3	
South Side of Towncenter Drive									
37	01-21-22	Station No. 1+45	1.0	1.0-1.5	8.9	110.4	90	3	
38	01-21-22	Station No. 2+45	1.0	1.0-1.5	9.5	109.6	90	3	
39	01-21-22	Station No. 3+45	1.0	1.0-1.5	12.0	113.5	93	3	
40	01-21-22	Station No. 4+45	1.0	1.0-1.5	12.9	112.5	92	3	
41	01-21-22	Station No. 5+45	1.0	1.0-1.5	12.4	109.8	90	3	
42	01-21-22	Station No. 6+45	1.0	1.0-1.5	10.8	109.3	90	3	
43	01-21-22	Station No. 6+90	1.0	1.0-1.5	8.5	115.5	95	3	
44	01-21-22	Station No. 7+42	1.0	1.0-1.5	9.8	116.3	95	3	
North of Convenience Store									
45	01-21-22	Station No. 2+15	1.0	1.0-1.5	12.7	114.4	94	3	
46	01-21-22	Station No. 3+15	1.0	1.0-1.5	12.8	110.0	90	3	
Trash Enclosure Area									
47	01-21-22	Station No. 1+80	1.0	1.0-1.5	10.2	108.2	89	3	48
48	01-21-22	Retest of Test No. 47	1.0	1.0-1.5	9.7	117.0	96	3	
49	01-21-22	Station No. 1+51	1.0	1.0-1.5	9.0	117.9	97	3	
50	01-21-22	Station No. 3+52	1.0	1.0-1.5	11.4	116.3	95	3	
51	01-21-22	Center	1.0	1.0-1.5	9.8	118.2	97	3	

SUMMARY OF FIELD DENSITY TESTING
Engineering Resources of Southern California, Inc.
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Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
52	01-21-22	West Side	1.0	1.0-1.5	9.0	113.5	93	3	
Parking Lot Stalls, Front of Convenience Store									
53	01-21-22	Retest of Test No. 24	1.0	1.0-1.5	7.8	115.1	94	3	
54	01-21-22	Retest of Test No. 25	1.0	1.0-1.5	9.8	119.4	98	3	
Median Towncenter Drive									
55	01-21-22	Southeast Side	1.0	1.0-1.5	11.8	102.6	84	3	59
56	01-21-22	Northeast Side	1.0	1.0-1.5	9.8	101.8	83	3	60
57	01-21-22	Center West Side	1.0	1.0-1.5	9.8	103.8	85	3	61
58	01-21-22	Southwest Side	1.0	1.0-1.5	12.7	103.3	85	3	62
59	01-21-22	Retest of Test No. 55	1.0	1.0-1.5	12.3	109.4	90	3	
60	01-21-22	Retest of Test No. 56	1.0	1.0-1.5	10.3	110.3	90	3	
61	01-21-22	Retest of Test No. 57	1.0	1.0-1.5	10.3	109.8	90	3	
62	01-21-22	Retest of Test No. 58	1.0	1.0-1.5	13.2	110.4	90	3	
North of Trash Enclosure Area									
63	01-21-22	Station No. 1+00	1.0	1.0-1.5	9.5	109.7	90	3	
64	01-21-22	Station No. 2+00	1.0	1.0-1.5	12.5	113.7	93	3	
65	01-21-22	Station No. 3+00	1.0	1.0-1.5	9.1	110.2	90	3	
South Side of Towncenter Drive									
66	02-02-22	Station No. 3+70	0.0	0.0-0.5	11.2	119.7	98	3	
67	02-02-22	Station No. 2+70	0.0	0.0-0.5	8.9	121.7	100	3	
68	02-02-22	Station No. 1+70	0.0	0.0-0.5	9.7	113.2	93	3	
69	02-02-22	Station No. 1+00	0.0	0.0-0.5	10.2	116.2	95	3	
North Side of Towncenter Drive									
70	02-02-22	Station No. 1+00	0.0	0.0-0.5	11.4	118.7	97	3	
71	02-02-22	Station No. 2+00	0.0	0.0-0.5	10.1	117.8	97	3	
72	02-02-22	Station No. 3+00	0.0	0.0-0.5	8.1	118.9	97	3	
73	02-02-22	Station No. 4+00	0.0	0.0-0.5	8.1	118.4	97	3	
74	02-02-22	Station No. 4+50	0.0	0.0-0.5	7.1	115.7	95	3	
Median									
75	02-02-22	Southeast Side	F.G.	0.0-0.5	6.3	115.0	94	3	
76	02-02-22	Northeast Side	F.G.	0.0-0.5	8.2	117.6	96	3	
77	02-02-22	Center West	F.G.	0.0-0.5	6.5	111.8	92	3	
78	02-02-22	Southwest Side	F.G.	0.0-0.5	7.3	113.3	93	3	
Ribbon Gutter									
1	02-24-22	South of Pumps	F.G.	0.0-0.5	10.2	115.7	95	3	
2	02-24-22	Southeast of Pumps	F.G.	0.0-0.5	12.1	118.0	97	3	
3	02-24-22	South of Store	F.G.	0.0-0.5	8.9	107.6	88	3	7
4	02-24-22	East of Pumps	F.G.	0.0-0.5	11.4	115.6	95	3	
5	02-24-22	Northeast of Pumps	F.G.	0.0-0.5	11.1	122.5	100	3	

SUMMARY OF FIELD DENSITY TESTING
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Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
6	02-24-22	Northeast of Pumps	F.G.	0.0-0.5	9.5	119.9	98	3	
7	02-24-22	Retest of Test No. 3	F.G.	0.0-0.5	8.8	121.4	100	3	
8	02-24-22	East of Trash Enclosure	F.G.	0.0-0.5	10.0	116.2	95	3	
Curb and Gutter West Side of Site									
9	03-02-22	Curb and Gutter	F.G.	0.0-0.5	6.1	121.9	100	3	
10	03-02-22	West Side of Curb	F.G.	0.0-0.5	8.5	110.5	91	3	12
11	03-02-22	East Side of Curb	F.G.	0.0-0.5	7.4	104.3	85	3	13
12	03-03-22	Retest of Test No. 10	F.G.	0.0-0.5	9.9	114.0	93	3	14
13	03-03-22	Retest of Test No.11	F.G.	0.0-0.5	14.1	106.1	87	3	15
14	03-07-22	Retest of Test No. 12	F.G.	0.0-0.5	7.9	118.3	97	3	
15	03-07-22	Retest of Test No. 13	F.G.	0.0-0.5	7.8	117.7	96	3	
Ribbon Gutter									
16	03-07-22	South of Future Development	F.G.	0.0-0.5	8.9	115.3	95	3	
Drive Thru									
17	03-09-22	Southeast Side	F.G.	0.0-0.5	4.6	122.9	94	1	
18	03-09-22	Northeast Side	F.G.	0.0-0.5	5.6	120.2	92	1	
19	03-09-22	Northwest Side	F.G.	0.0-0.5	4.9	121.1	92	1	
Curb and Gutter									
20	03-14-22	West of Gas Pump	F.G.	0.0-0.5	5.1	119.3	94	4	
SIDEWALK									
Towncenter Drive, North Side									
1	03-07-22	Station 1+00	F.G.	0.0-0.5	6.7	120.5	92	1	
2	03-07-22	Station 2+25	F.G.	0.0-0.5	7.1	118.6	91	1	
3	03-07-22	Station 3+75	F.G.	0.0-0.5	7.8	122.3	93	1	
Towncenter Drive, South Side									
4	03-07-22	Station 1+00	F.G.	0.0-0.5	8.4	118.3	90	1	
5	03-07-22	Station 2+00	F.G.	0.0-0.5	9.0	124.3	95	1	
6	03-07-22	Station 3+00	F.G.	0.0-0.5	8.4	120.3	92	1	
7	03-07-22	Station 4+25	F.G.	0.0-0.5	9.4	118.5	90	1	
8	03-07-22	Station 5+50	F.G.	0.0-0.5	10.3	119.8	91	1	
Between Generator Pad and Trash Enclosure									
9	03-07-22	West Side	F.G.	0.0-0.5	10.1	118.5	90	1	
10	03-07-22	East Side	F.G.	0.0-0.5	10.4	119.7	91	1	
C-Store Area									
11	03-09-22	West Side, North End	F.G.	0.0-0.5	5.9	122.6	94	1	
12	03-09-22	West Side, Center	F.G.	0.0-0.5	6.1	119.1	91	1	
13	03-09-22	West Side, South End	F.G.	0.0-0.5	5.8	118.3	90	1	
14	03-14-22	South of Store	F.G.	0.0-0.5	6.5	108.1	85	4	16

SUMMARY OF FIELD DENSITY TESTING
Engineering Resources of Southern California, Inc.
Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
15	03-14-22	East of Store	F.G.	0.0-0.5	9.8	114.0	90	4	
16	03-14-22	Retest of Test No. 14	F.G.	0.0-0.5	5.8	119.9	94	4	
PAVEMENT AREAS									
Towncenter Drive									
1	03-14-22	East of C-Store	F.G.	0.0-0.5	5.6	122.2	96	4	
2	03-14-22	East of Trash Enclosure	F.G.	0.0-0.5	5.1	120.2	95	4	
3	03-14-22	Southwest of Drive	F.G.	0.0-0.5	7.7	122.6	97	4	
4	03-14-22	Southwest of Trash Enclosure	F.G.	0.0-0.5	7.3	120.5	95	4	
5	03-14-22	West of Trash Enclosure	F.G.	0.0-0.5	5.8	125.0	98	4	
6	03-14-22	West of C-Store	F.G.	0.0-0.5	6.4	122.8	97	4	
7	03-14-22	West of C-Store, East of Fuel Station	F.G.	0.0-0.5	5.8	125.0	98	4	
8	03-14-22	West of C-Store, West of Fuel Station	F.G.	0.0-0.5	5.4	122.9	97	4	
9	03-15-22	West of Fuel Station	F.G.	0.0-0.5	7.6	122.9	97	4	
C-Store Area									
10	03-15-22	Southeast of Southeast Corner	F.G.	0.0-0.5	4.9	124.9	98	4	
11	03-15-22	North of Northeast Corner	F.G.	0.0-0.5	7.4	123.6	97	4	
Fuel Station Island Southern Pumps									
12	03-24-22	Southwest of Southern Pumps	F.G.	0.0-0.5	4.6	123.6	97	4	
C-Store Area									
13	03-24-22	Northwest of Northeast Corner	F.G.	0.0-0.5	7.4	123.0	97	4	
Fuel Station Island Northern Pumps									
14	03-24-22	West Side	F.G.	0.0-0.5	6.4	138.8	98	5	
15	03-24-22	North Side	F.G.	0.0-0.5	4.4	133.7	95	5	
16	03-24-22	East Side	F.G.	0.0-0.5	6.3	138.5	98	5	
C-Store Area									
17	03-28-22	North of Northwest Corner	F.G.	0.0-0.5	3.0	134.3	95	5	
18	03-28-22	East Side	F.G.	0.0-0.5	4.1	137.6	98	5	
19	03-28-22	East of Southeast Corner	F.G.	0.0-0.5	3.0	135.9	96	5	
Parking Stalls									
20	03-28-22	West of C-Store	F.G.	0.0-0.5	3.9	135.2	96	5	
21	03-28-22	West of C-Store	F.G.	0.0-0.5	4.0	136.2	97	5	
Fuel Station Island Northern Pumps									
22	03-28-22	South Side	F.G.	0.0-0.5	3.3	140.0	99	5	
23	03-28-22	West Side	F.G.	0.0-0.5	3.4	134.6	95	5	
24	03-30-22	North	F.G.	0.0-0.5	6.8	137.6	98	5	
C-Store Area									
25	03-30-22	West of Trash Enclosure	F.G.	0.0-0.5	5.4	133.9	95	5	
26	03-30-22	South of Store Parking Stalls	F.G.	0.0-0.5	5.4	133.4	95	5	

SUMMARY OF FIELD DENSITY TESTING
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Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
Fuel Station Island Southern Pumps									
27	03-30-22	East Side	F.G.	0.0-0.5	5.9	142.7	100	5	
28	03-30-22	South of Trash Enclosure	F.G.	0.0-0.5	4.2	135.3	96	5	
29	03-30-22	Southwest Side	F.G.	0.0-0.5	3.2	135.4	96	5	
Towncenter Drive									
1	11-29-22	South	S.G.	0.0-0.5	6.6	122.4	95	8	
2	11-29-22	Center	S.G.	0.0-0.5	5.3	125.7	97	8	
3	11-29-22	North	S.G.	0.0-0.5	4.7	123.7	96	8	
4	12-02-22	Southbound Lane	F.G.	0.0-0.5	7.1	135.1	96	9	
5	12-02-22	Northbound Lane	F.G.	0.0-0.5	3.8	140.2	100	9	
6	12-02-22	Southbound Lane, South of Center	F.G.	0.0-0.5	2.3	133.9	95	9	
7	12-02-22	Northbound Lane, South End	F.G.	0.0-0.5	4.5	135.8	97	9	
Riro Access Road									
1	12-01-22	North End	S.G.	0.0-0.5	5.2	126.7	98	8	
2	12-01-22	South End	S.G.	0.0-0.5	5.2	124.4	96	8	
3	12-05-22	North End	S.G.	0.0-0.5	4.8	120.3	93	8	
4	12-05-22	South End	S.G.	0.0-0.5	11.4	122.5	95	8	
5	12-05-22	North End	F.G.	0.0-0.5	2.2	136.4	96	11	
6	12-05-22	Middle	F.G.	0.0-0.5	3.5	136.7	96	11	
7	12-05-22	South End	F.G.	0.0-0.5	4.1	136.0	96	11	
8	12-05-22	South End	F.G.	0.0-0.5	3.4	135.0	95	11	
9	12-06-22	North End	F.G.	0.0-0.5	3.5	141.0	99	11	
10	12-06-22	South End	F.G.	0.0-0.5	4.4	136.9	96	11	
OFFSITE PAVEMENT									
Lake Park Drive									
1	09-21-22	Station 48+58	F.G.	0.0-0.5	4.8	138.9	99	7	
2	09-21-22	Station 49+10	F.G.	0.0-0.5	4.9	139.8	99	7	
3	09-21-22	Station 49+40	F.G.	0.0-0.5	5.0	145.4	100	7	
4	09-21-22	Station 50+13	F.G.	0.0-0.5	4.4	144.2	100	7	
5	02-03-23	Station 44+00	F.G.	0.0-0.5	7.5	127.0	97	1	
6	02-03-23	Station 45+50	F.G.	0.0-0.5	7.8	124.3	95	1	
7	02-03-23	Station 47+00	F.G.	0.0-0.5	8.1	127.1	97	1	
8	02-03-23	Station 48+10	F.G.	0.0-0.5	10.1	128.0	98	1	
9	02-03-23	Station 50+54	F.G.	0.0-0.5	10.0	124.7	95	1	
10	02-03-23	Station 49+14	F.G.	0.0-0.5	7.1	129.7	99	1	
11	02-07-23	Station 44+00	F.C.	0.0-0.2	5.0	138.3	96	12	
12	02-07-23	Station 45+00	F.C.	0.0-0.2	5.1	136.9	95	12	
13	02-07-23	Station 46+00	F.C.	0.0-0.2	4.1	137.4	96	12	
14	02-07-23	Station 47+00	F.C.	0.0-0.2	5.7	137.7	96	12	

			Fill	Test	Moisture	Dry	Relative	Soil	Remarks/
Test			Depth	Depth	Content	Density	Compaction	Type	Retests
No.	Date	Location	(ft.)	(ft.)	(%)	(pcf)	(%)		
15	02-07-23	Station 48+00	F.C.	0.0-0.2	6.3	136.2	95	12	
16	02-07-23	Station 49+00	F.C.	0.0-0.2	5.3	138.4	96	12	
17	02-07-23	Station 50+00	F.C.	0.0-0.2	4.7	138.1	96	12	
18	02-07-23	Station 51+00	F.C.	0.0-0.2	4.8	141.1	98	12	
ON SITE ASPHALT CONCRETE PAVEMENT									
Parking Stalls , West of C-Store									
1	03-31-22	South End	A.C.	0.0-0.2	-	141.3	95	AC-1	3
2	03-31-22	North End	A.C.	0.0-0.2	-	146.2	99	AC-1	
3	03-31-22	Retest of Test No. 1	A.C.	0.0-0.2	-	145.3	98	AC-1	
Drive Perpendicular to Fuel Station Island									
4	03-31-22	West Side	A.C.	0.0-0.2	-	142.3	96	AC-1	
5	03-31-22	West Side	A.C.	0.0-0.2	-	144.2	97	AC-1	
6	03-31-22	East Side	A.C.	0.0-0.2	-	145.6	98	AC-1	
7	03-31-22	East Side	A.C.	0.0-0.2	-	145.1	98	AC-1	
Fuel Station Island Northern Pumps									
8	03-31-22	West Side, South End	A.C.	0.0-0.2	-	144.8	98	AC-1	
9	03-31-22	West Side, North End	A.C.	0.0-0.2	-	144.9	98	AC-1	
10	03-31-22	West Side, Middle	A.C.	0.0-0.2	-	147.6	100	AC-1	
11	03-31-22	West Side, North End	A.C.	0.0-0.2	-	146.1	99	AC-1	
12	03-31-22	South Side	A.C.	0.0-0.2	-	145.2	98	AC-1	
13	03-31-22	West Side, North End	A.C.	0.0-0.2	-	145.8	98	AC-1	
14	03-31-22	South Side, Eastbound	A.C.	0.0-0.2	-	146.2	99	AC-1	
15	03-31-22	North Side, Westbound	A.C.	0.0-0.2	-	147.6	100	AC-1	
16	03-31-22	East Side, North End	A.C.	0.0-0.2	-	146.6	99	AC-1	
17	03-31-22	Middle, North End	A.C.	0.0-0.2	-	145.8	98	AC-1	
18	03-31-22	South Side	A.C.	0.0-0.2	-	145.8	98	AC-1	
19	03-31-22	South Side, Eastbound	A.C.	0.0-0.2	-	144.9	98	AC-1	
C-Store Area Parking									
20	03-31-22	North Side	A.C.	0.0-0.2	-	146.1	99	AC-1	
21	03-31-22	South Side	A.C.	0.0-0.2	-	147.1	99	AC-1	
22	03-31-22	Southwest of Trash Enclosure	A.C.	0.0-0.2	-	148.0	100	AC-1	
23	03-31-22	Northwest of Trash Enclosure	A.C.	0.0-0.2	-	147.3	99	AC-1	
Drive Thru				0.0-0.2	-				
24	04-01-22	North End	A.C.	0.0-0.2	-	141.0	95	AC-1	
25	04-01-22	Center	A.C.	0.0-0.2	-	147.3	99	AC-1	
26	04-01-22	South End	A.C.	0.0-0.2	-	142.2	96	AC-1	
27	04-01-22	South of Future Development	A.C.	0.0-0.2	-	147.0	99	AC-1	
28	04-01-22	West of Pumps	A.C.	0.0-0.2	-	144.9	98	AC-1	

SUMMARY OF FIELD DENSITY TESTING
Engineering Resources of Southern California, Inc.
Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
29	04-01-22	West of Pumps	A.C.	0.0-0.2	-	142.9	96	AC-1	
30	04-01-22	West of Pumps	A.C.	0.0-0.2	-	146.5	99	AC-1	
31	04-01-22	West of Pumps	A.C.	0.0-0.2	-	146.2	99	AC-1	
Fuel Station Island Southern Pumps, Parking Area									
32	04-01-22	Northeast	A.C.	0.0-0.2	-	145.5	98	AC-1	
33	04-01-22	East	A.C.	0.0-0.2	-	141.8	96	AC-1	
34	04-01-22	East of Pumps	A.C.	0.0-0.2	-	142.1	96	AC-1	
35	04-01-22	East of Pumps	A.C.	0.0-0.2	-	141.5	95	AC-1	
Drive Lane									
36	04-01-22	South of Trash Enclosure	A.C.	0.0-0.2	-	144.0	97	AC-1	
37	04-01-22	East of Trash Enclosure	A.C.	0.0-0.2	-	146.2	99	AC-1	
Towncenter Drive									
38	12-06-22	North End	A.C.	0.0-0.2	-	140.6	94	AC-2	
39	12-06-22	Middle, North	A.C.	0.0-0.2	-	137.8	92	AC-2	
40	12-06-22	Middle, South	A.C.	0.0-0.2	-	144.8	97	AC-2	
41	12-06-22	South End	A.C.	0.0-0.2	-	144.5	97	AC-2	
Riro Access Road									
42	12-06-22	North Side	A.C.	0.0-0.2	-	139.6	94	AC-2	
43	12-06-22	Between Cross Gutters, North	A.C.	0.0-0.2	-	145.1	97	AC-2	
44	12-06-22	Center	A.C.	0.0-0.2	-	148.7	100	AC-2	
45	12-06-22	North End	A.C.	0.0-0.2	-	138.5	93	AC-2	
46	12-06-22	Center	A.C.	0.0-0.2	-	137.4	92	AC-2	
47	12-06-22	South End	A.C.	0.0-0.2	-	137.4	92	AC-2	
OFF SITE ASPHALT CONCRETE PAVEMENT									
Lake Park Drive									
1	09-22-22	Station 49+93	A.C.	0.0-0.2	-	143.9	96	Plant 1	
2	09-22-22	Station 49+13	A.C.	0.0-0.2	-	145.9	97	Plant 1	
3	09-22-22	Station 49+53	A.C.	0.0-0.2	-	143.3	96	Plant 1	
4	09-22-22	Station 48+60	A.C.	0.0-0.2	-	144.4	96	Plant 1	
5	10-14-22	Casino Entrance, North Side	A.C.	0.0-0.2	-	144.5	97	Plant 2	
6	10-14-22	Casino Entrance, South Side	A.C.	0.0-0.2	-	144.5	97	Plant 2	
7	12-01-22	RCP Trench	A.C.	0.0-0.2	-	149.1	100	AC-2	
8	12-01-22	Water Line Trench	A.C.	0.0-0.2	-	143.1	96	AC-2	
1	02-08-23	Station 44+10	A.C.	0.0-0.2	-	145.0	97	Plant 3	
2	02-08-23	Station 46+00	A.C.	0.0-0.2	-	149.3	100	Plant 3	
3	02-08-23	Station 51+00	A.C.	0.0-0.2	-	151.0	100	Plant 3	
4	02-08-23	Station 47+50	A.C.	0.0-0.2	-	150.4	100	Plant 3	
5	02-09-23	Station 48+10	A.C.	0.0-0.2	-	145.7	97	Plant 3	

SUMMARY OF FIELD DENSITY TESTING
Engineering Resources of Southern California, Inc.
Sovovatum Village

Inland Foundation Engineering, Inc.

Test No.	Date	Location	Fill Depth (ft.)	Test Depth (ft.)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Soil Type	Remarks/ Retests
6	02-09-23	Station 43+20	A.C.	0.0-0.2	-	146.1	98	Plant 3	
7	02-09-23	Station 44+00	A.C.	0.0-0.2	-	146.6	98	Plant 3	
8	02-09-23	Station 46+00	A.C.	0.0-0.2	-	148.5	99	Plant 3	
9	02-09-23	Station 48+35	A.C.	0.0-0.2	-	145.9	98	Plant 3	
10	02-09-23	Station 50+50	A.C.	0.0-0.2	-	148.9	100	Plant 3	

FUTURE DEVELOPMENT AREA

Overexcavation

1	02-08-23	Northwest Half	6.0	0.5	12.7	114.9	94	3	
2	02-08-23	Northwest Half	6.0	0.5	14.4	109.5	90	3	
3	02-09-23	Bottom, North Corner	6.0	0.5	11.9	109.9	90	3	
4	02-09-23	Northwest Half	2.0	0.5	8.8	114.8	94	3	
5	02-09-23	Northwest Half	4.0	0.5	7.5	113.1	93	3	
6	02-10-23	Bottom, Southeast Half	6.0	0.5	8.1	111.7	92	3	
7	02-10-23	Bottom, Northeast Half	6.0	0.5	8.5	110.7	91	3	
8	02-10-23	West Half, South	5.0	0.5	8.8	110.3	90	3	
9	02-10-23	West Half, North	6.0	0.5	8.4	111.0	91	3	
10	02-13-23	Southeast Half	2.0	0.5	12.1	118.7	97	3	
11	02-13-23	Northeast Half	2.0	0.5	9.5	116.6	96	3	
12	02-14-23	Southwest Corner	0.0	0.5	11.6	125.2	96	1	
13	02-14-23	Northeast Corner	0.0	0.5	9.8	126.5	97	1	