

## IN-PLACE DENSITY: K46886

**CLIENT:** CHOYCE, LLC  
PO BOX 847  
LEE'S SUMMIT, MO 64063

**REPORT NO:** K46886  
**REPORT DATE:** 6/24/2022  
**SERVICE DATE:** 6/23/2022

**PROJECT:** R20-22-032  
NAPA VALLEY 5TH PLAT

**AUTHORIZATION:**  
**CONTRACTOR:**

**SERVICES:** Perform in-place density and moisture content tests to determine the degree of field compaction.

### Gauge

Type	Serial No.	Test Mode	Density Current	Density Previous	Moisture Current	Moisture Previous
TROXLER 3440	77123	Direct Transmission	2773	2783	689	696

### Requirements

	Density Method	Density Specification	Moisture Method	Moisture Specification
A	ASTM D6938	$\geq 95\%$	ASTM D3017	-3% / +3% of optimum

### Test Proctors

No.	Test Type	Material	Optimum Moisture	Max Density	Reference
1	STANDARD PROCTOR ASTM D698, Method B	LT BROWN MOTTLED GRAY SILTY CLAY W/ 5% CEMENT	16.9%	106.9 pcf	K46234
2	STANDARD PROCTOR ASTM D698, Method B	LT BROWN MOTTLED GRAY SILTY CLAY W/ 5% CEMENT	19.1%	105 pcf	K46233



## Results

No.	Location	Probe Depth	Lift/Elev	Proctor	Field Moist.	Opt. Moist.	Moist. Result (Req.)	Dry Density (pcf)	Max Density (pcf)	Compaction %	Density Result (Req.)
1	Mondavi street STA 1+55 2' R-CL	6	FSG	1	14.1%	16.9%	Pass (A)	105.8	106.9	99%	Pass (A)
2	Mondavi street STA 2+25 4' RGT CL	6	FSG	1	16.2%	16.9%	Pass (A)	101.9	106.9	95%	Pass (A)
3	Flintlock street lot 191 STA 1+50 L-10'	6	FSG	1	14.9%	16.9%	Pass (A)	103.0	106.9	96%	Pass (A)
4	Flintlock street lot 191 STA 3+60 8' L-CL	6	FSG	2	17.8%	19.1%	Pass (A)	103.5	105.0	99%	Pass (A)
5	Flintlock street lot 191 STA 5+50 4' RGT CL	6	FSF	1	14.3%	16.9%	Pass (A)	101.4	106.9	95%	Pass (A)
6	Flintlock Street STA 7+20 8' RGT CL	6	FSG	1	13.9%	16.9%	Pass (A)	102.9	106.9	96%	Pass (A)
7	Flintlock street STA 8+50 8' RGT CL	6	FSG	1	13.9%	16.9%	Pass (A)	101.9	106.9	95%	Pass (A)
8	Flintlock street STA 10+20 STA 10+20 4' L-CL	6	FSG	1	15.1%	16.9%	Pass (A)	101.2	106.9	95%	Pass (A)
9	Flintlock street STA 11+ 4' L CL	6	FSG	1	13.9%	16.9%	Pass (A)	101.9	106.9	95%	Pass (A)
10	Flintlock street STA 9+10 8' L CL	6	FSG	1	14.1%	16.9%	Pass (A)	102.1	106.9	96%	Pass (A)

### Additional Comments

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Observed cement treatment of road subgrade and performed density tests on completed sections. Spalding Construction incorporated 60 tons of cement into the upper 6 inches of soil subgrade on Flintlock Street from station 0+40 to 11+91 and for a 300' section of Mondavi Street cul de sac. Contractor tilled and mixed the soil and cement in general accordance with accepted standards.

**TECHNICIAN:** ERIC HOWARD  
CME TECHNICIAN III

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KANSAS CITY TESTING & ENGINEERING, LLC,



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