

Traffic data used from the July 2022 AJR:

- 2045 design traffic data existing and committed configuration
- 2020 design traffic data existing configuration
- Report section 1.3, 1.4 and appendix A
 - Traffic growth: used 1.5% growth at I-35 and 2.0% at SH-74

Assumed equation used to estimate No-Build (existing) vs. Build (proposed) traffic projections:

$y = x_1(1 + g_1(t)) + x_2(1 + g_2(t))$ <p>where, y = traffic projected or proposed $x_1(1 + g_1(t))$ = baseline traffic, projected or existing $x_2(1 + g_2(t))$ = interchange improvement generated traffic, projected</p> <p>*Assumed linear growth rate</p>

Traffic projection results:

Traffic Projections for SH-74 & I-35						
YEAR	SH-74				I-35	
	East End		At Bridge		At W. Grant St.	
	EXISTING (vpd)	PROPOSED (vpd)	EXISTING (vpd)	PROPOSED (vpd)	EXISTING (vpd)	PROPOSED (vpd)
2020	3,382	4,575	2,887	3,528	28,831	29,048
2025	3,720	5,032	3,176	3,881	30,994	31,227
2045	5,074	6,864	4,331	5,292	39,415	39,713

Traffic inputs to estimate vehicle hours traveled (VHT) and vehicle miles traveled (VMT):

Name of Segment	Time (mins.)	Distance (mi.)	Daily Traffic Volume	Passenger Car	Truck Trips	TT Savings (mins.)
S.E.01	10.5	4	332	315	17	4.5
S.P.01a	2	0.7	332	315	17	
S.P.01b	1	0.3				
S.P.01c	3	3.3				
S.E.02	12	4.8	23	21	2	7
S.P.02a	1	0.3	23	21	2	
S.P.02b	1	0.3				
S.P.02c	3	3.3				
S.E.03	4.5	2.6	35	33	2	1.5
S.P.03a	1	1.2	35	33	2	
S.P.03b	1	0.3				
S.P.03c	1	0.2				
N.E.01	8.5	3.8	283	268	15	2.5
N.P.01a	3	3.3	283	268	15	
N.P.01b	1	0.3				
N.P.01c	2	0.7				
N.E.02	4	2.5	81	76	5	1
N.P.02a	1	0.3	81	76	5	
N.P.02b	1	0.3				
N.P.02c	1	1.1				
N.E.03	11	4.6	15	14	1	6
N.P.03a	3	3.4	15	14	1	
N.P.03b	1	0.3				
N.P.03c	1	0.3				

2045 VHT & VMT Calculations for Passenger Car (based on assumptions shown below)		
	VHT	VMT
No-Build	107	2719.4
Build	67	2830.1
Difference	41	(110.70)
Annual Conversion	14,878	(40,433.17)

2045 VHT & VMT Calculations for Trucks (based on assumptions shown below)		
	VHT	VMT
No-Build	6	156.9
Build	4	161.3
Difference	2	(4.40)
Annual Conversion	864	(1,607.10)

S.E.01

← from 1500 N Green Ave, Purcell, OK 73080
to Monarch Hwy, Purcell, OK 73080

7 - 14 min (4.0 miles)



via State Hwy 74 N

1500 N Green Ave

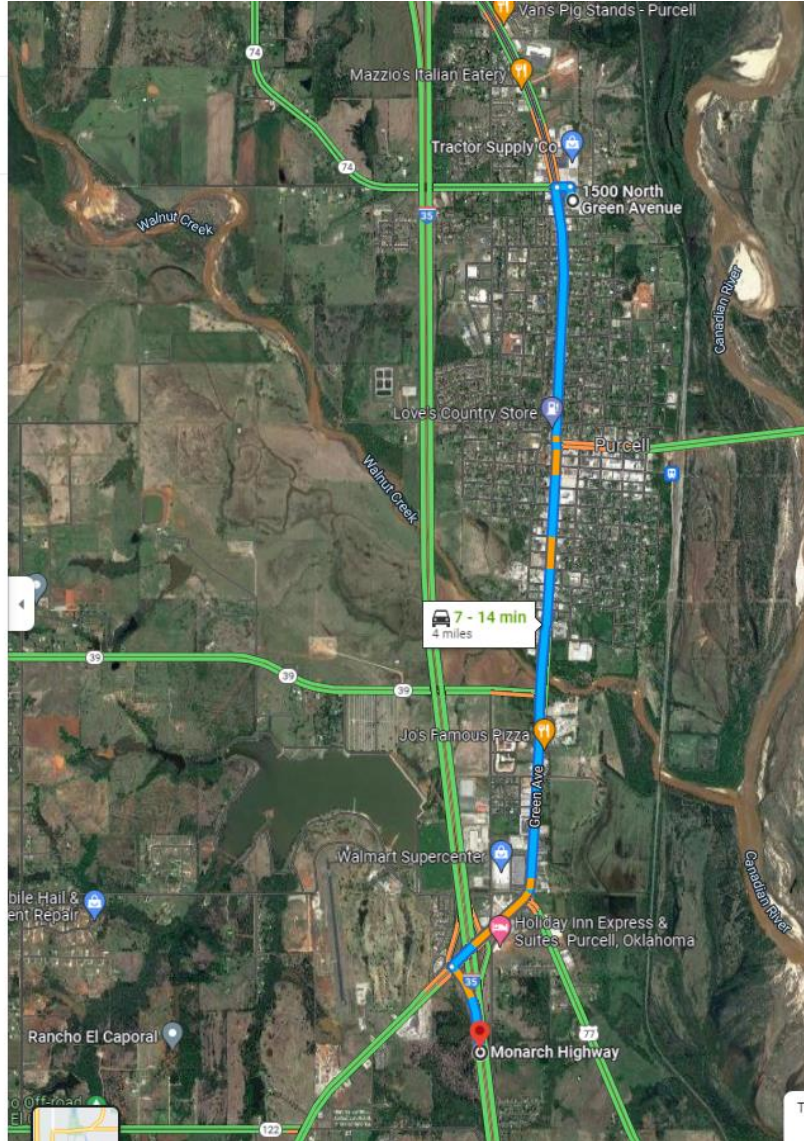
Purcell, OK 73080

- ↑ Head north toward W Grant St
299 ft
- ↶ Turn left onto W Grant St
295 ft
- ↶ Turn left onto State Hwy 74 S/N Green Ave
 - ➊ Continue to follow State Hwy 74 S
 - ➋ Pass by Carl's Jr (on the right in 1.1 mi)3.5 mi
- ↗ Turn left to merge onto I-35 S toward Dallas
0.4 mi

Monarch Hwy

Purcell, OK 73080

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



S.P.01a

← from 1500 N Green Ave, Purcell, OK 73080
to State Hwy 74, Purcell, OK 73080

2 min (0.7 mile)

via State Hwy 74 N



1500 N Green Ave

Purcell, OK 73080

↑ Head north toward W Grant St

299 ft

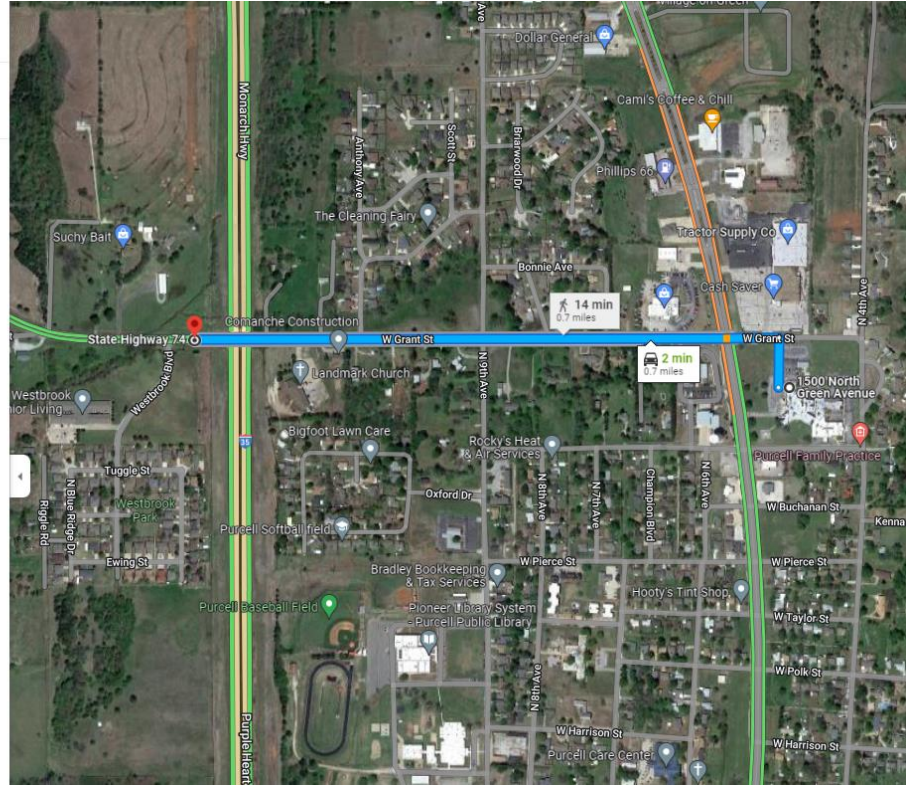
↩ Turn left onto W Grant St

0.7 mi

State Hwy 74

Purcell, OK 73080

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S.P.01c

← from Monarch Hwy, Purcell, OK 73080
to Monarch Hwy, Purcell, OK 73080

3 min (3.3 miles)

via I-35 S



Monarch Hwy

Purcell, OK 73080

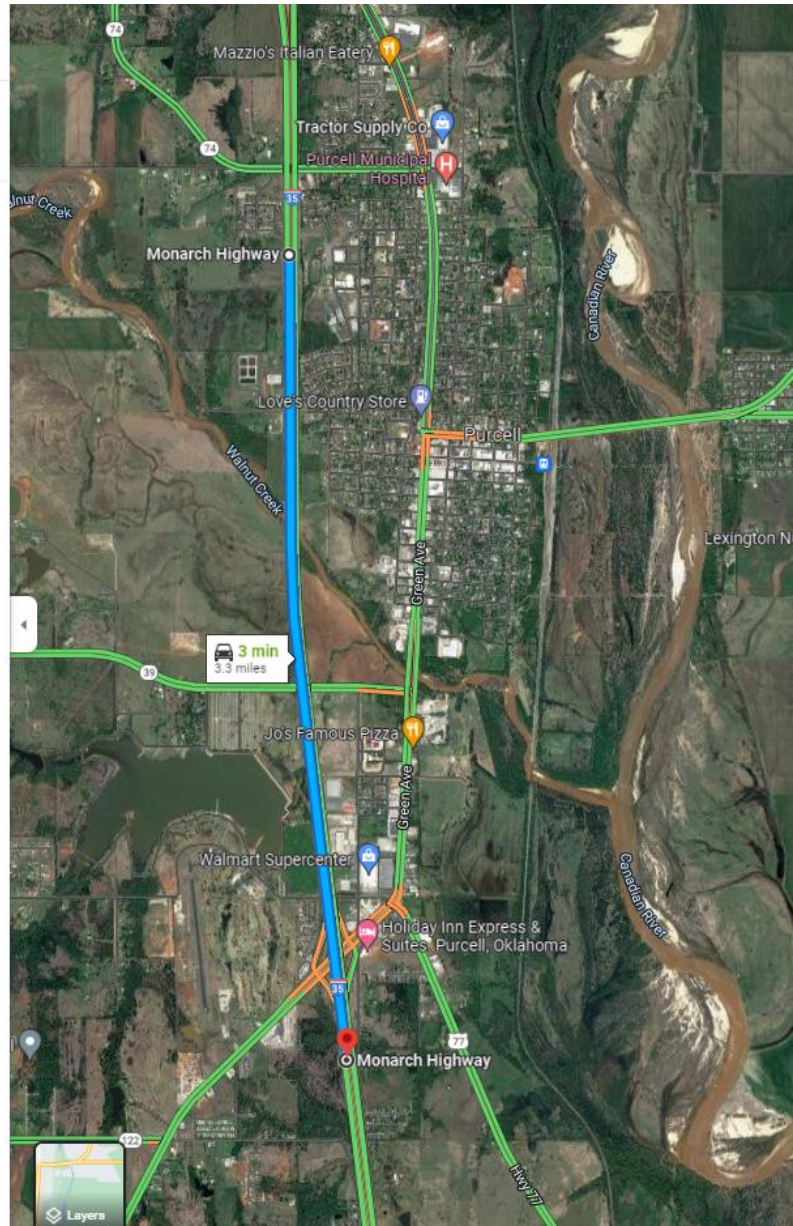
- ↑ Head south on I-35 S
- 📍 Destination will be on the right

3.3 mi

Monarch Hwy

Purcell, OK 73080

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S.E.02

← from 22016-22158 State Hwy 74, Purcell, OK 73080
to Monarch Hwy, Purcell, OK 73080

8 - 16 min (4.8 miles)

via State Hwy 74 S



22016-22158 State Hwy 74

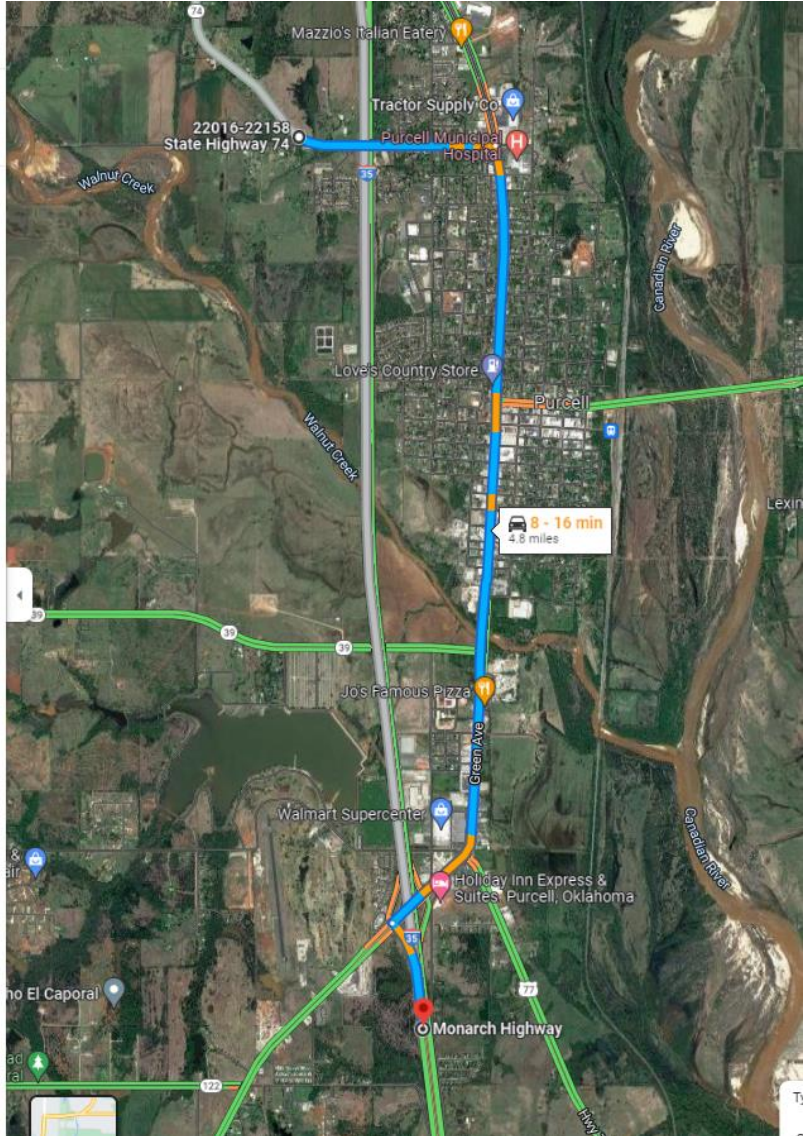
Purcell, OK 73080

- ↑ Head southeast on State Hwy 74 S toward 220th St
0.8 mi
- ↪ Turn right onto State Hwy 74 S/N Green Ave
 - 1 Continue to follow State Hwy 74 S
 - 1 Pass by Carl's Jr (on the right in 1.1 mi)3.5 mi
- ↶ Turn left to merge onto I-35 S toward Dallas
 - 1 Destination will be on the right0.5 mi

Monarch Hwy

Purcell, OK 73080

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S.P.02a

← from 22016-22158 State Hwy 74, Purcell, OK 73080 to State Hwy 74, Purcell, OK 73080

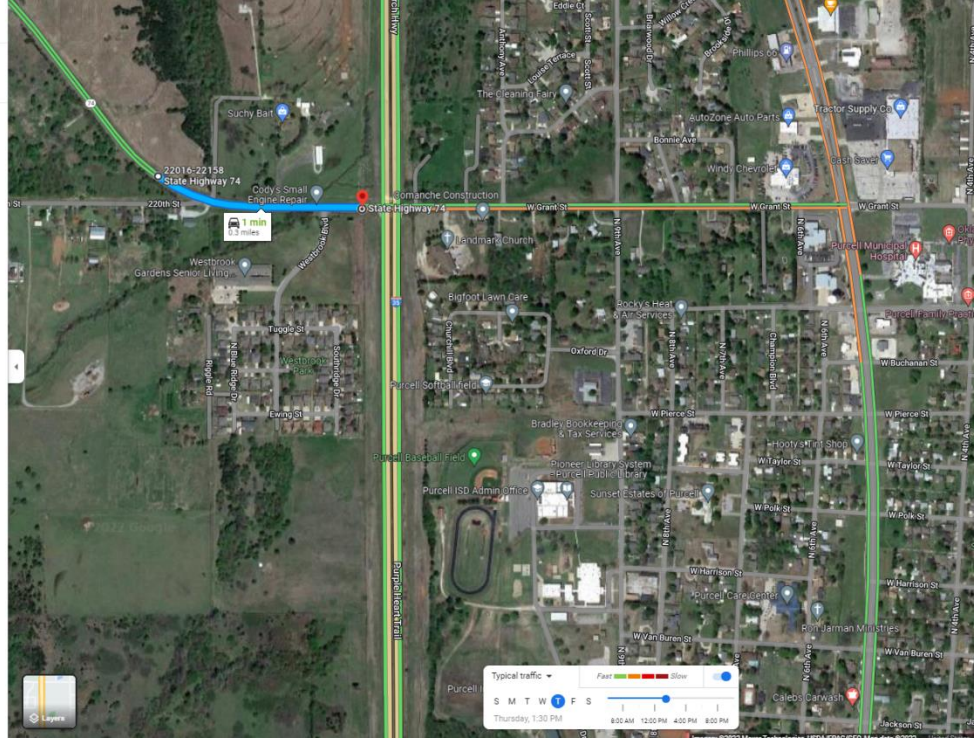
1 min (0.3 mile)
via State Hwy 74 S

22016-22158 State Hwy 74
Purcell, OK 73080

↑ Head southeast on State Hwy 74 S toward 220th St
Destination will be on the right
0.3 mi

State Hwy 74
Purcell, OK 73080

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S.P.02c

← from Monarch Hwy, Purcell, OK 73080
to Monarch Hwy, Purcell, OK 73080

3 min (3.3 miles)

via I-35 S



Monarch Hwy

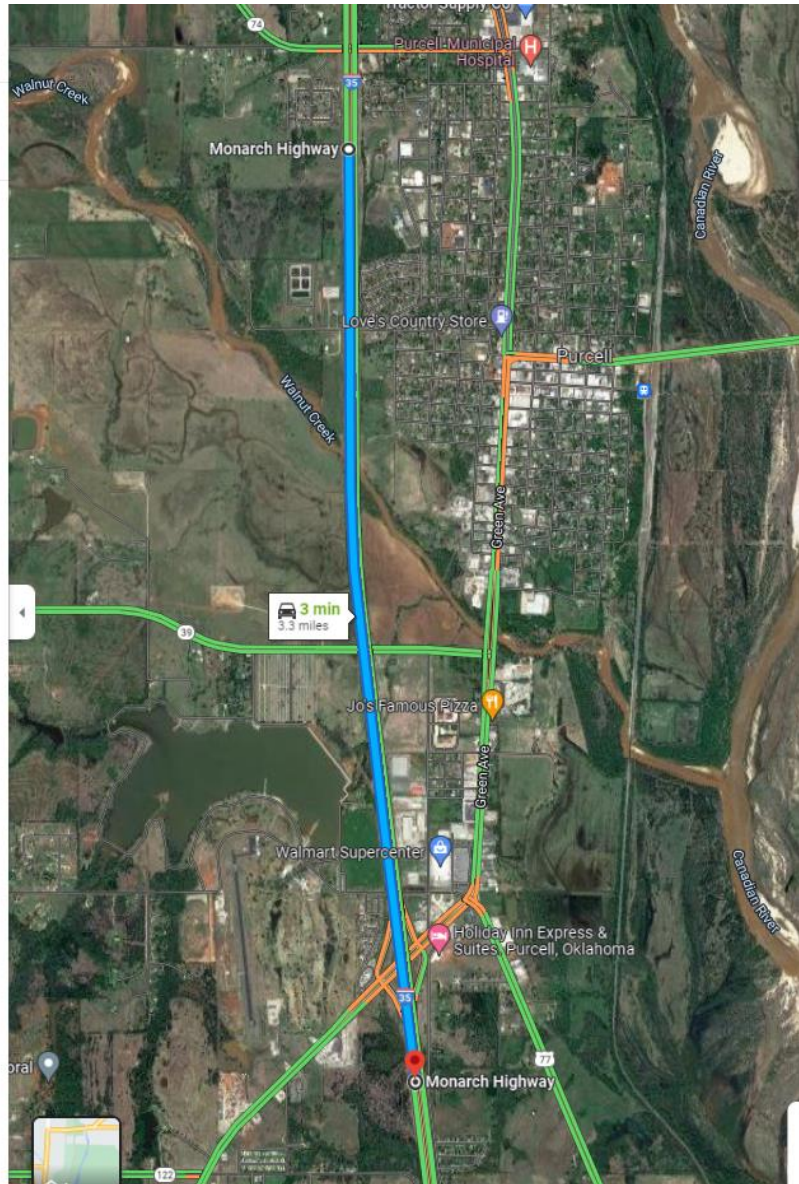
Purcell, OK 73080

- ↑ Head south on I-35 S
 - 📍 Destination will be on the right
- 3.3 mi

Monarch Hwy


Purcell, OK 73080

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S.E.03

← from Monarch Hwy, Purcell, OK 73080
to 22016-22158 State Hwy 74, Purcell, OK 73080

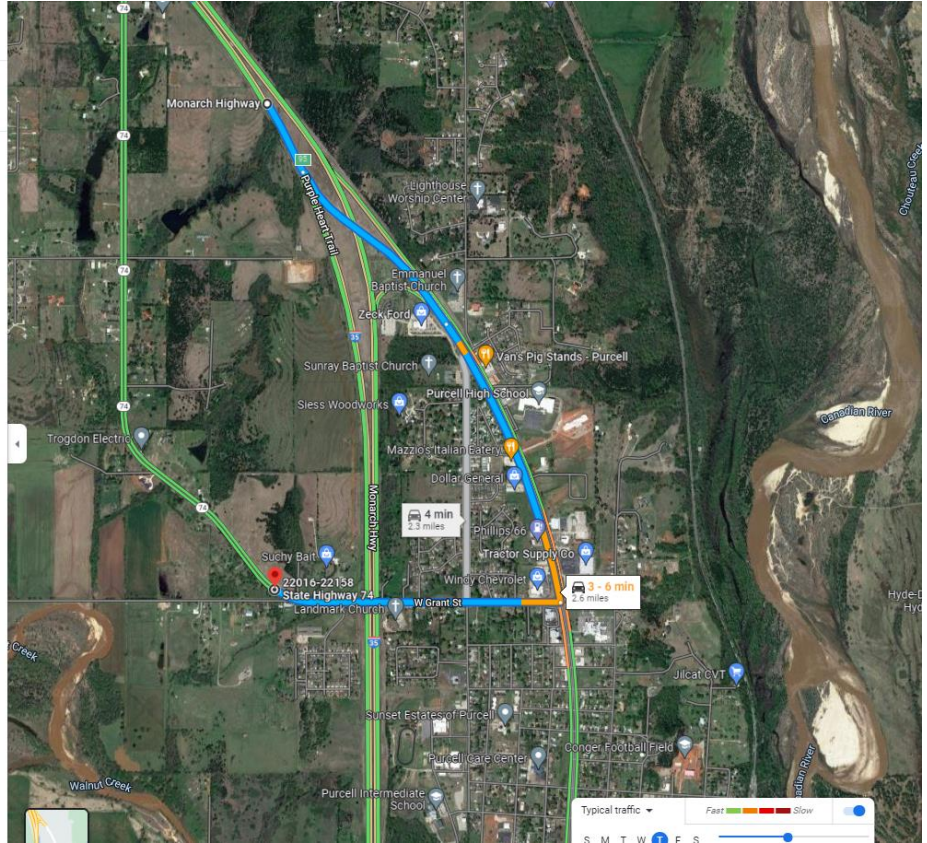
3 - 6 min (2.6 miles) 
via N Green Ave and State Hwy 74 N

Monarch Hwy
Purcell, OK 73080

- ↑ Head southeast on I-35 S
0.2 mi
- ↙ Use the left lane to take exit 95 toward N Green Ave
0.6 mi
- ↑ Continue onto N Green Ave
● Pass by AutoZone Auto Parts (on the right in 0.8 mi)
0.9 mi
- ↘ Turn right onto State Hwy 74 N/W Grant St
● Continue to follow State Hwy 74 N
0.8 mi

22016-22158 State Hwy 74
Purcell, OK 73080

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S.P.03a

← from Monarch Hwy, Purcell, OK 73080
to Monarch Hwy, Purcell, OK 73080

1 min (1.2 miles)



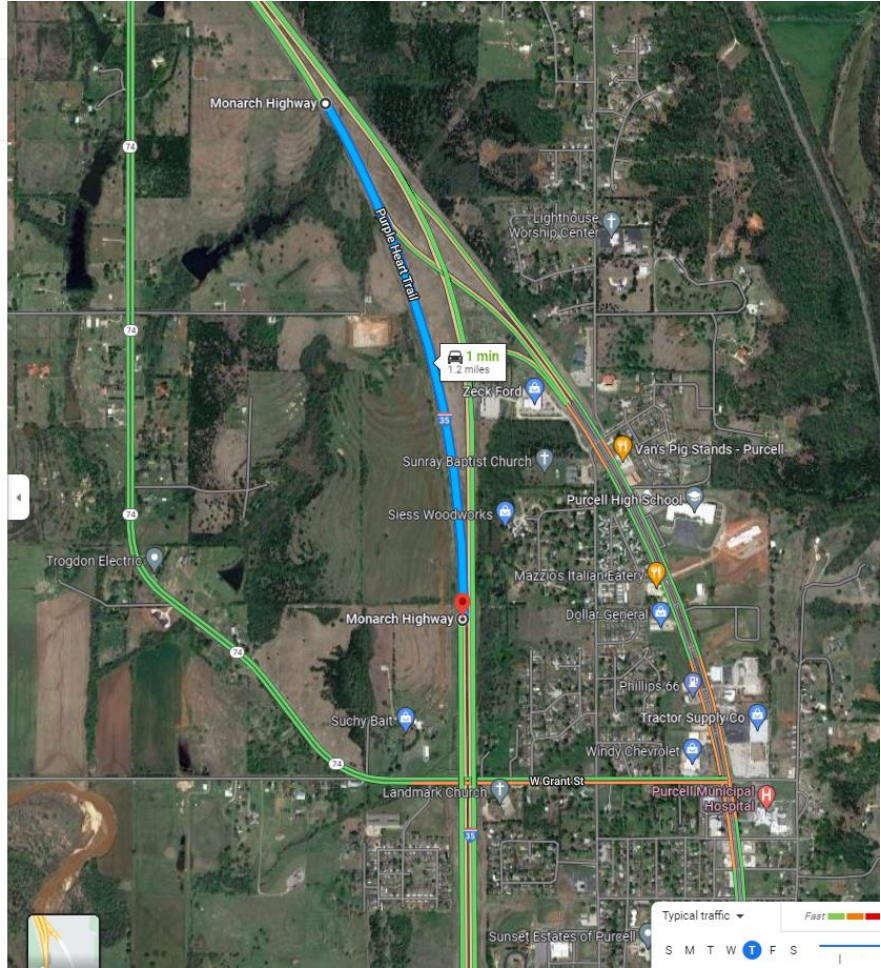
via I-35 S

Monarch Hwy
Purcell, OK 73080

↑ Head southeast on I-35 S
Destination will be on the right
1.2 mi

Monarch Hwy
Purcell, OK 73080

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S.P.03c

← from Purcell, Oklahoma
to 22016-22158 State Hwy 74, Purcell, OK 73080

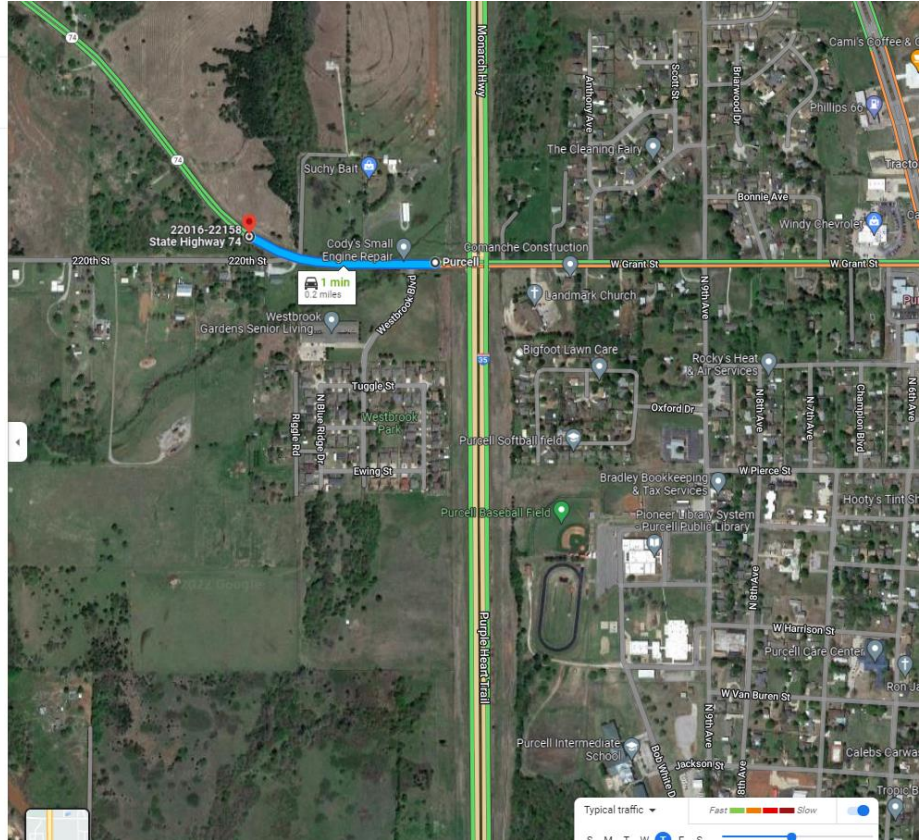
1 min (0.2 mile)
via State Hwy 74 N

Purcell
Oklahoma

↑ Head west on State Hwy 74 N toward Westbrook Blvd
0.2 mi

22016-22158 State Hwy 74
Purcell, OK 73080

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N.E.01

← from Monarch Hwy, Purcell, OK 73080
to 1500 N Green Ave, Purcell, OK 73080

7 - 12 min (3.8 miles)



via State Hwy 74 N

Monarch Hwy

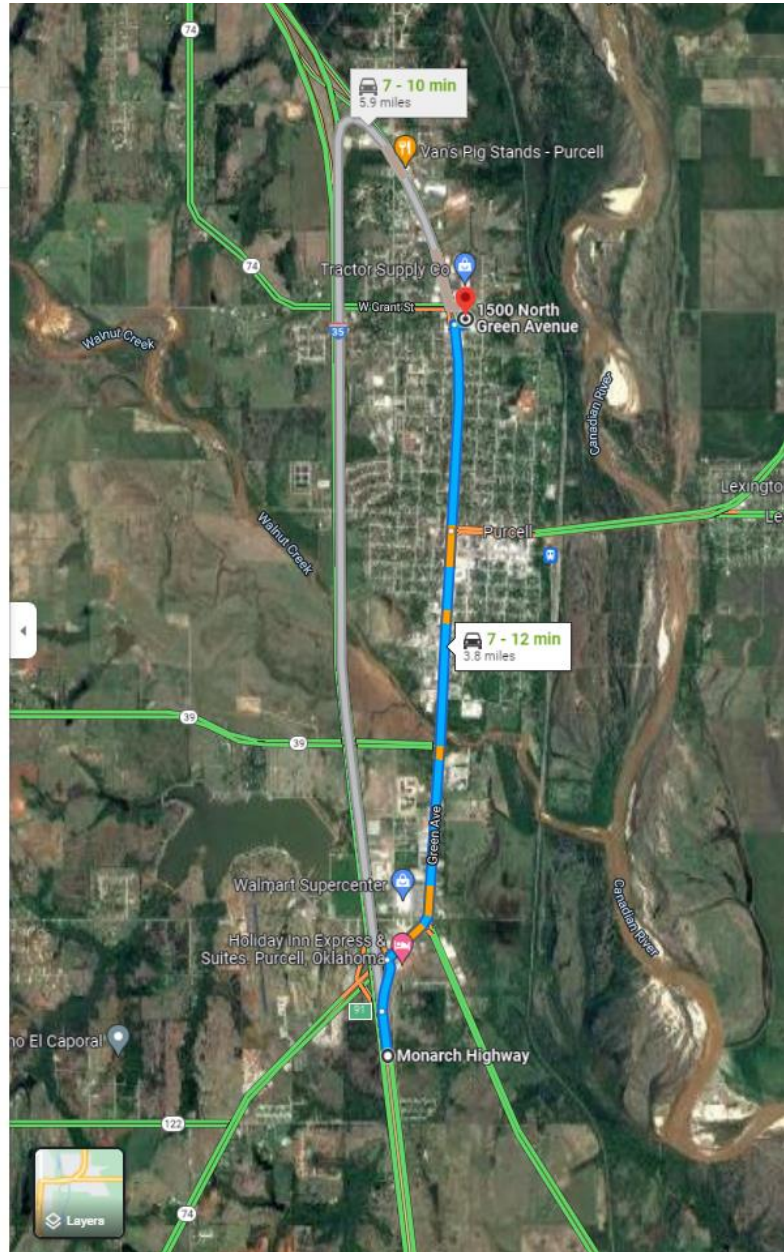
Purcell, OK 73080

- ↑ Head north on I-35 N
0.2 mi
- Take exit 91 for OK-74 toward OK-39/Purcell/Lexington
0.3 mi
- Turn right onto OK-74 N/State Hwy 74 N
1 Pass by Pizza Hut (on the left in 1.8 mi)
2.2 mi
- ↑ Continue straight onto N Green Ave
1 Pass by IBC Bank (on the right in 1.0 mi)
1.0 mi
- Turn right
1 Destination will be on the right
364 ft

1500 N Green Ave

Purcell, OK 73080

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N.P.01a

← from Monarch Hwy, Purcell, OK 73080
to Monarch Hwy, Purcell, OK 73080

3 min (3.3 miles)

via I-35 N



Monarch Hwy

Purcell, OK 73080

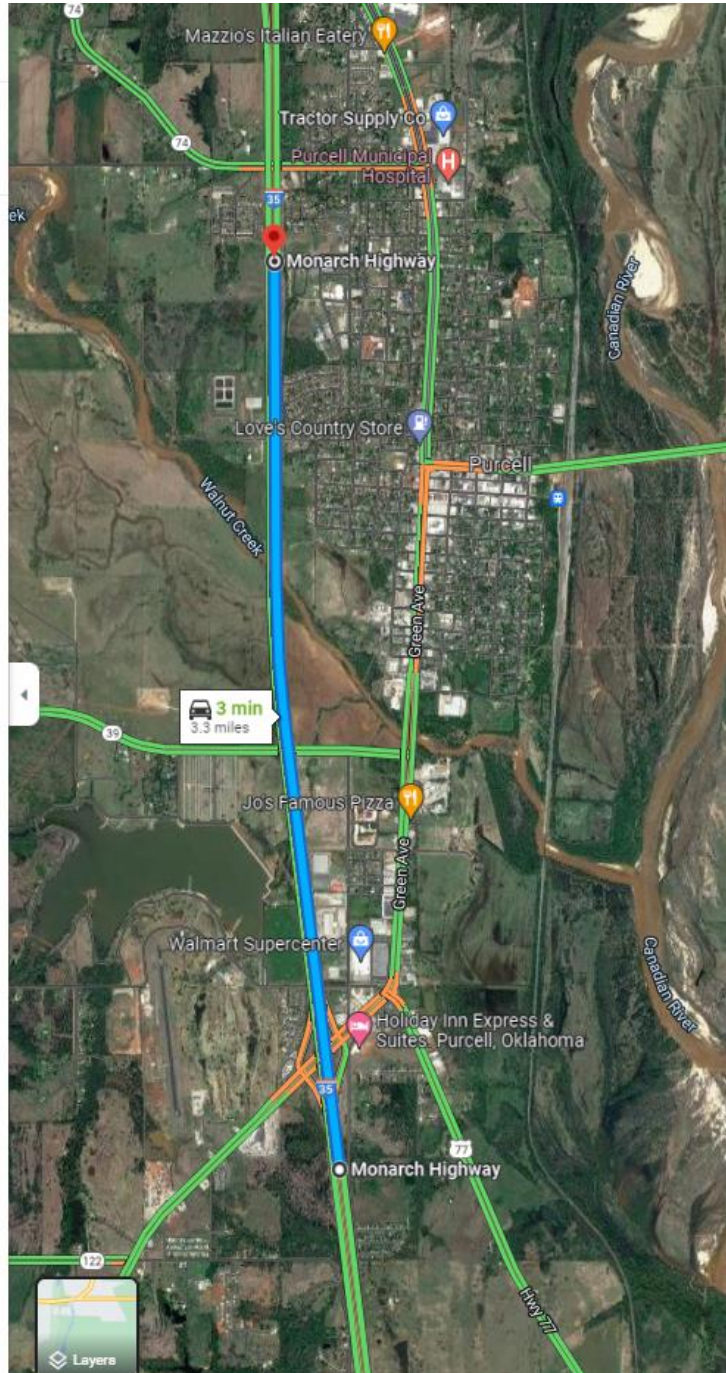
↑ Head north on I-35 N

3.3 mi

Monarch Hwy

Purcell, OK 73080

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N.P.01c

← from 1119 W Grant St, Purcell, OK 73080
to 1500 N Green Ave, Purcell, OK 73080

2 min (0.7 mile)

via State Hwy 74 N
Fastest route now due to traffic conditions

1119 W Grant St
Purcell, OK 73080

↑ Head east on W Grant St toward Luglena Ln

0.5 mi

↑ Continue straight to stay on W Grant St

335 ft

↪ Turn right

233 ft

↪ Turn right

279 ft

↶ Turn left

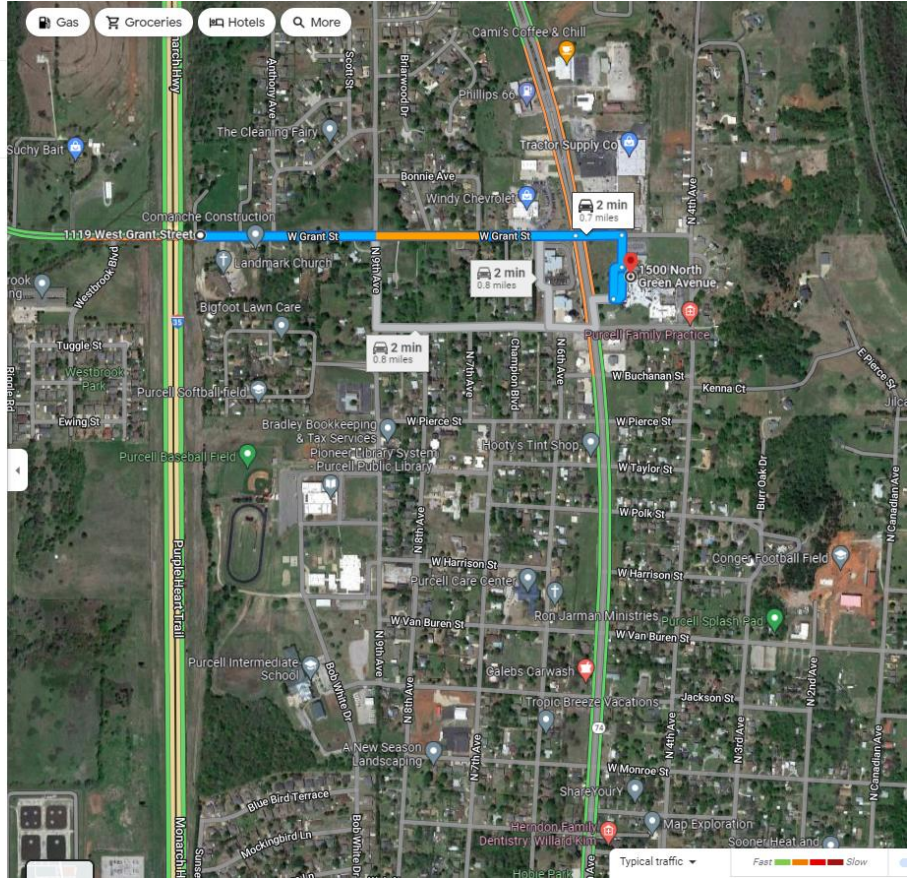
Destination will be on the right

207 ft

1500 N Green Ave

Purcell, OK 73080

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N.E.02

← from 22016-22158 State Hwy 74, Purcell, OK 73080 to Purcell, Oklahoma

4 min (2.5 miles)

via State Hwy 74 S and N Green Ave



22016-22158 State Hwy 74

Purcell, OK 73080

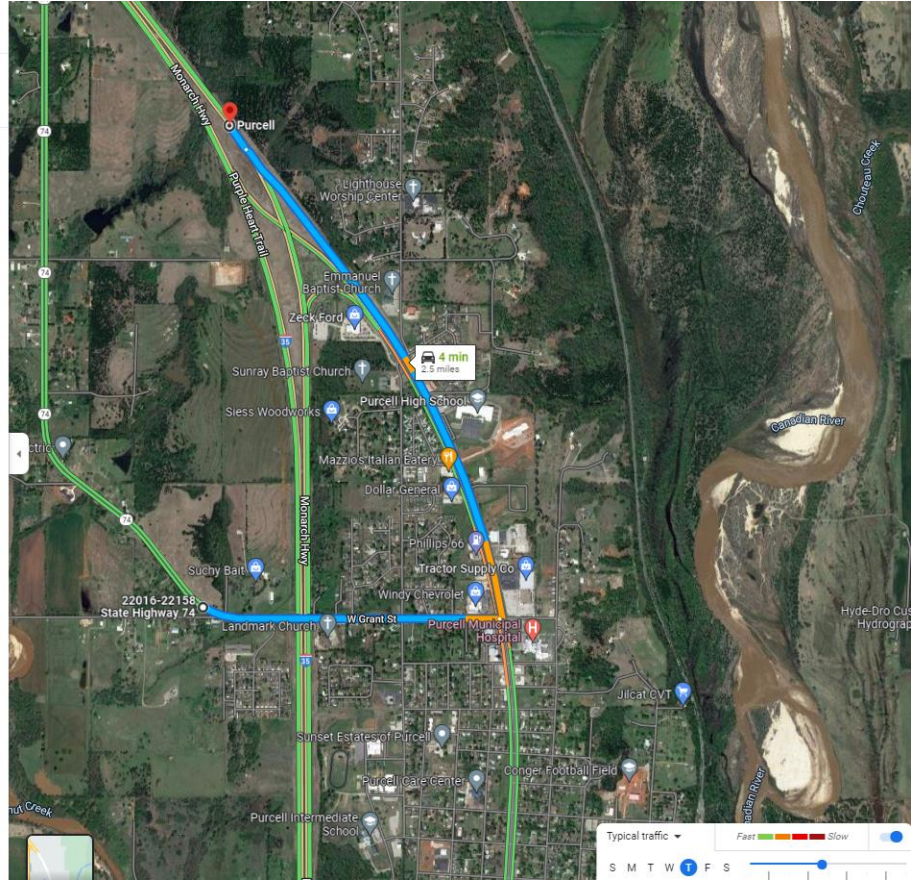
↑ Head southeast on State Hwy 74 S toward 220th St
0.8 mi

↶ Turn left onto N Green Ave
1.5 mi

↗ Merge onto I-35 N
433 ft

Purcell
Oklahoma

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N.P.02a

← from 22016-22158 State Hwy 74, Purcell, OK 73080
to 1106 State Hwy 74, Purcell, OK 73080

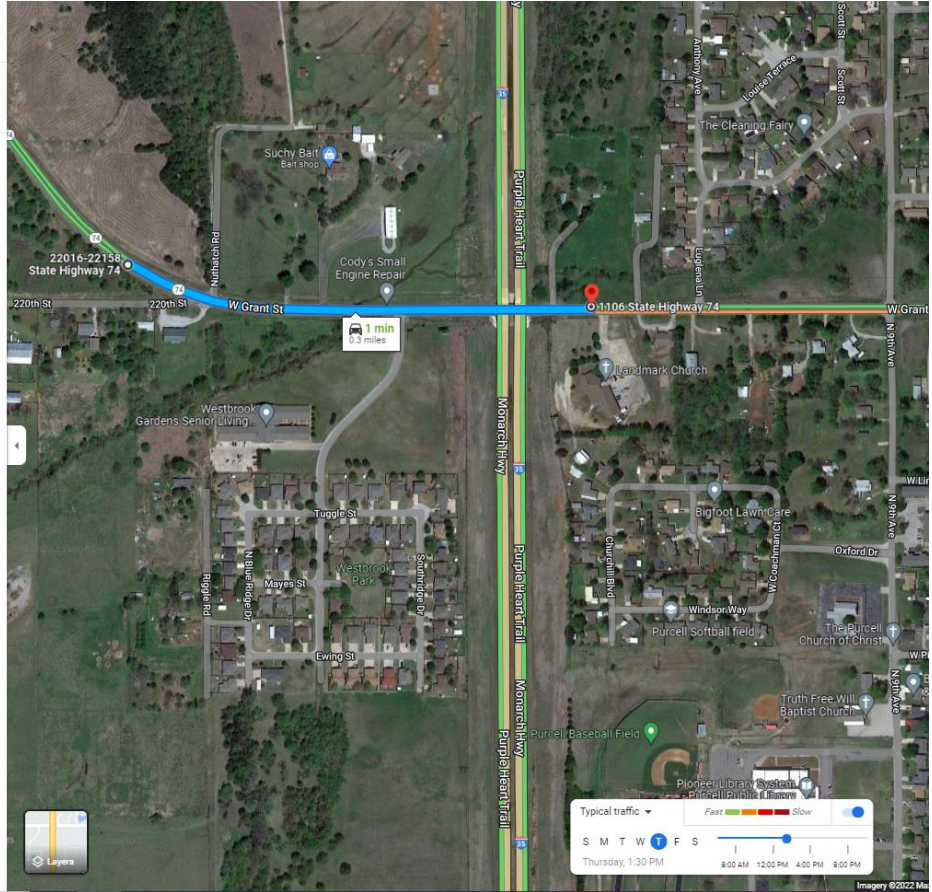
1 min (0.3 mile)
via State Hwy 74 S

22016-22158 State Hwy 74
Purcell, OK 73080

↑ Head southeast on State Hwy 74 S toward 220th St
Destination will be on the left
0.3 mi

1106 State Hwy 74
Purcell, OK 73080

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N.P.02c

← from Monarch Hwy, Purcell, OK 73080
to Purcell, Oklahoma

1 min (1.1 miles)

via I-35 N

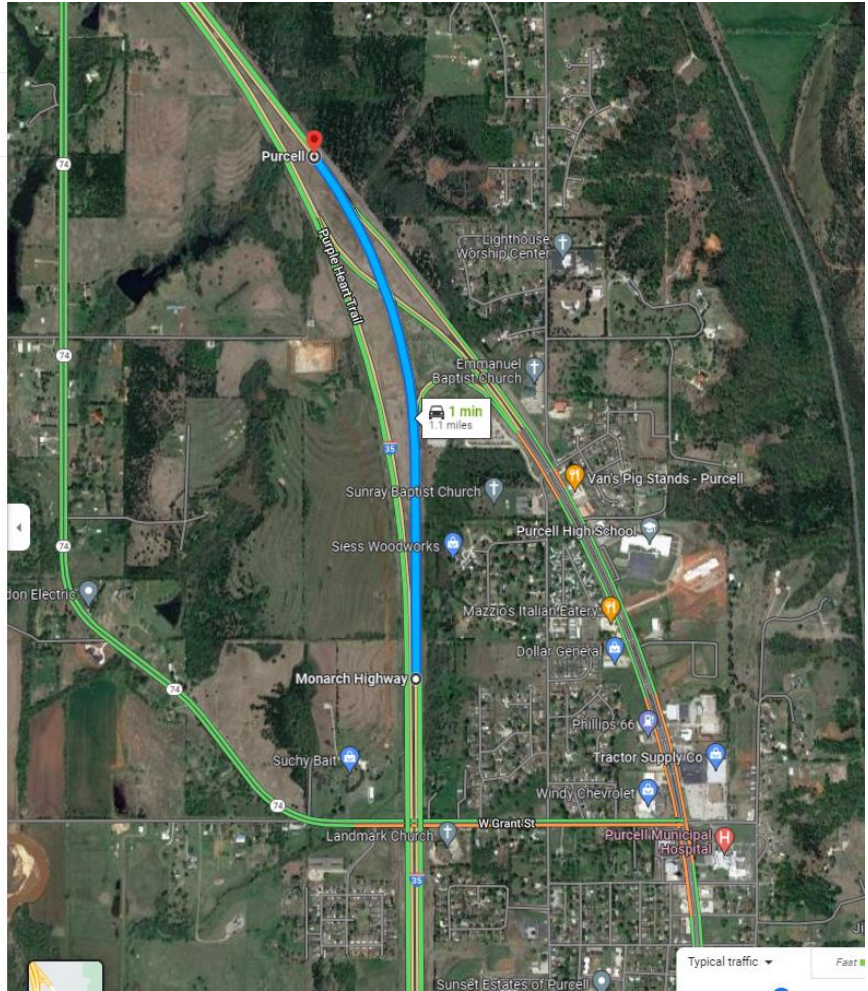


Monarch Hwy
Purcell, OK 73080

↑ Head north on I-35 N
1.1 mi

Purcell
Oklahoma

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N.E.03

← from Monarch Hwy, Purcell, OK 73080
to Purcell, Oklahoma

8 - 14 min (4.6 miles)



via State Hwy 74 N

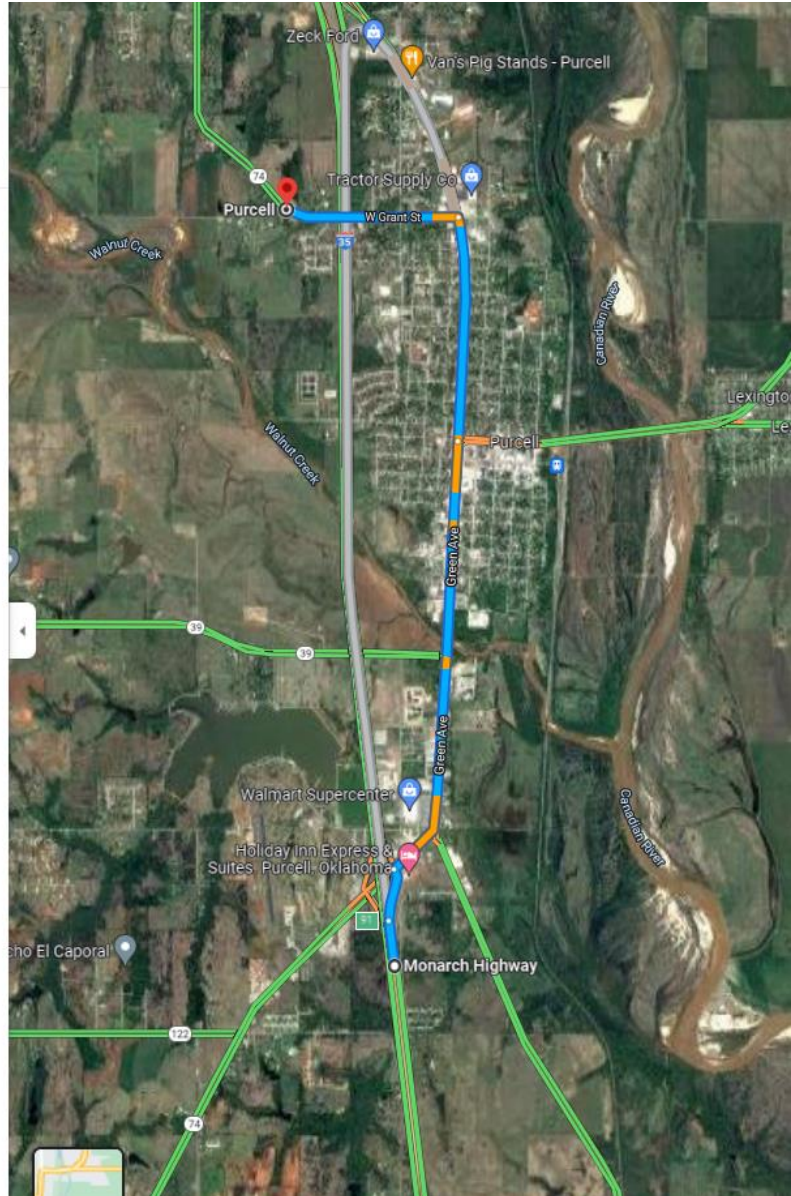
Monarch Hwy

Purcell, OK 73080

- ↑ Head north on I-35 N
0.2 mi
- ↘ Take exit 91 for OK-74 toward OK-39/Purcell/Lexington
0.3 mi
- ↘ Turn right onto OK-74 N/State Hwy 74 N
ⓘ Pass by Pizza Hut (on the left in 1.8 mi)
2.2 mi
- ↑ Continue straight onto N Green Ave
ⓘ Pass by IBC Bank (on the right in 1.0 mi)
1.1 mi
- ↙ Turn left onto State Hwy 74 N/W Grant St
ⓘ Continue to follow State Hwy 74 N
ⓘ Destination will be on the right
0.9 mi

Purcell
Oklahoma

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N.P.03a

← from Monarch Hwy, Purcell, OK 73080
to Monarch Hwy, Purcell, OK 73080

3 min (3.4 miles)

via I-35 N



Monarch Hwy
Purcell, OK 73080

↑ Head north on I-35 N
Destination will be on the right

3.4 mi

Monarch Hwy
Purcell, OK 73080

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