



July 22nd, 2022

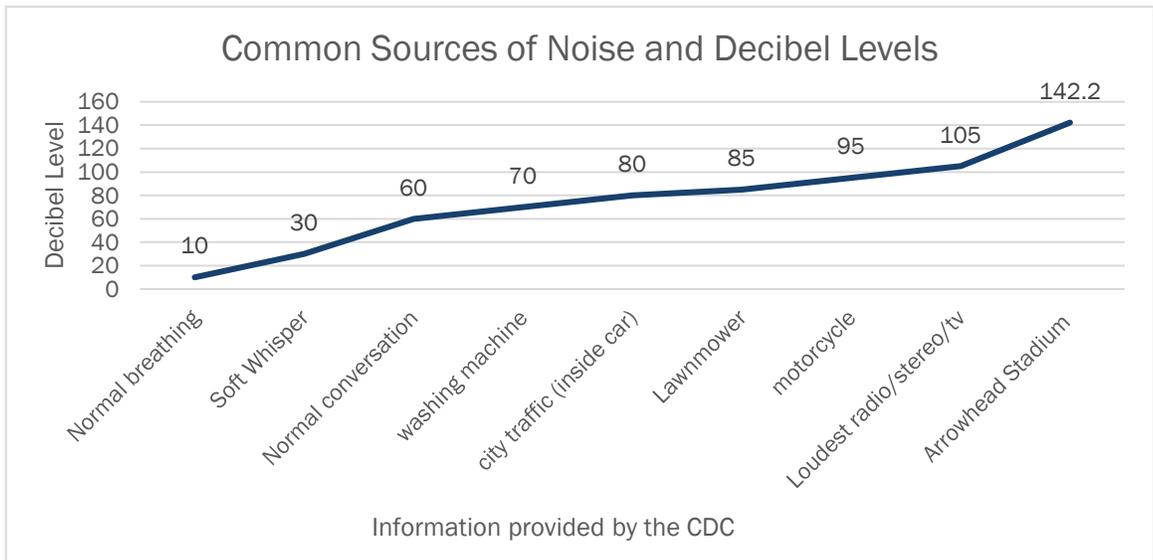
RE: PL2022178 - Noise levels for proposed McBee's Coffee N Carwash

Dear Recipient(s),

As discussed at the July 14th, Lee's Summit Planning Meeting, the city ordinance maximum for noise at commercial businesses is currently 65 decibels (dB). A concerned citizen, but still in favor of the project, brought to light that the proposed McBee's Coffee N Carwash may exceed this ordinance. While there was no data available during the planning meeting from the applicant, the Preliminary Development Plan was still approved to go to council under the condition that the applicant would provide noise level information before the scheduled city council meeting. While it was difficult to find an available Acoustics Engineer in a timely manner, luckily the McBee's have pulled their resources together to gather the appropriate information shared within this letter and related attached documents.

COMMON DECIBAL LEVELS

Before diving into the sound meter readings, it is important to know the basics of sound to be able to analyze this case appropriately. The CDC states on their website, "A whisper is about 30 dB, normal conversation is about 60 dB, and a motorcycle engine running is about 95 dB." I have provided the below chart to makes these readings even more real and comparable to things we often hear. While the city ordinance is limited to 65 dB, that is only slightly higher than a normal conversation of two people standing a few feet apart from one another. For some businesses, there is no way to always keep the noise under this limit when outside factors as simple as cars passing by can easily throw off the sound meter. In this letter we will evaluate readings with and without existing conditions, factors that may be involved, and the buffers we have in place to control noise coming from the carwash equipment and turbines.





McBEE SOUND METER READINGS

Attached to this letter includes noise level readings from the two existing McBee's Coffee N Carwash locations that recently opened in Belton, Missouri and North Little Rock, Arkansas: Both off main throughfares and very similar in size to the proposed wash in Lee's Summit, Missouri. Current conditions at the proposed location have also been recorded to serve as a comparison. You will notice the North Little Rock location has very detailed information pertaining to peak weighted sound pressure levels and worker's exposure. While this additional information is greatly helpful to the owners, for the sake of this letter I will be referring mostly to the instantaneous readings and the maximum sound level reached (Lmax) within the one-minute recording. The instantaneous reading is recorded with no perceived activity occurring nearby, so as quiet as the area was perceived to be. The maximum levels consider all activity such as cars driving by, blowers being used in the tunnel, and any surrounding noise. All readings have been conducted with meters that meet OSHA standards at minimum.

MANUFACTURER TURBINE METER READINGS

Also attached are sound level meter readings directly from our equipment manufacturer,

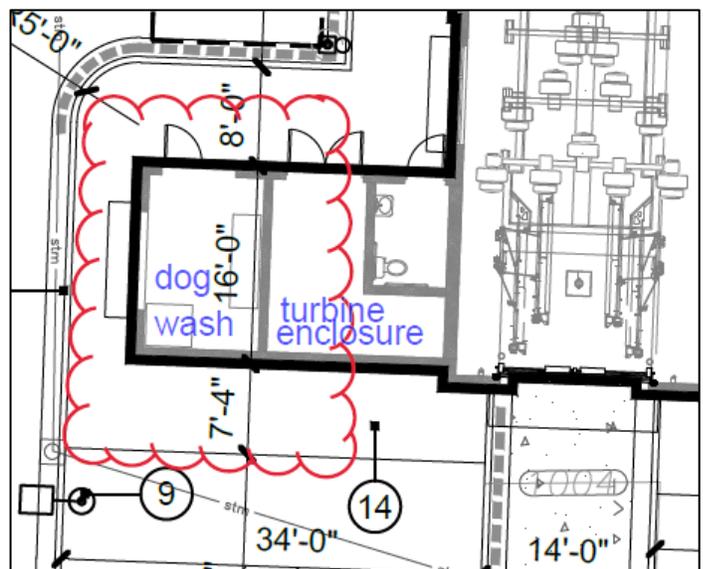
	Stalls per turbine	# Of turbines	HP of turbine
LS, MO	10	2	40
Belton, MO	6 & 7	2	30
NLR, AR	12	1	50

Vacutech. Two turbines were tested with different horsepower. The higher of the two was forty (40) horsepower, taken outside of a cinder block enclosure with no roof. There was also a test done with a thirty (30) horsepower turbine, not enclosed whatsoever. These meter readings were taken in a controlled environment so that no outside noise

would interfere with the readings. The enclosed forty (40) horsepower turbine readings would be most like what we will see in the proposed Lee's Summit location, as the chart to the left shows. This report shows the highest reading to be 60 dB; all readings are well under the city limit of 65 dB. As mentioned, this test was done within an enclosure, however the enclosure in this instance did not have a roof or any additional buffering measures in place.

SOUND BUFFERING

The McBee's have gone above and beyond in their design process to ensure that noise will not hinder the site or its neighbors. Not only will both of our proposed turbines be enclosed within eight-inch concrete block (8" CMU) walls, but they will also be fully enclosed with a roof overhead. Unintentionally in our latest building revision, an additional buffer will now





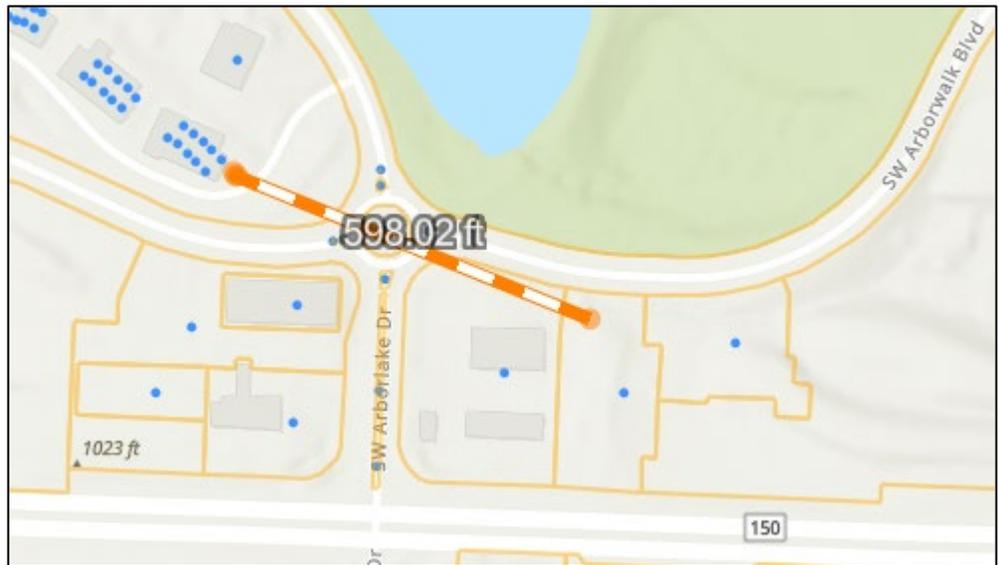
be in place for our Lee's Summit and all future locations. The dog wash was moved to the opposite side of the building and will be enclosed for better site flow and animal safety. Luckily for us in this instance, it also creates an additional layer of sound buffering to the site. While this design is not existing at any of our open locations to be able to take sound meter readings, we anticipate that this will potentially lessen any noise coming from the turbines by a few more decibels. With the manufacturer-controlled readings and the additional buffers we have in place, we do not foresee any issues pertaining to the noise of the vacuum turbines once operational.

SOUND ATTENUATION ('DROP OFF LEVEL')

Another main question proposed to McBee's Coffee N Carwash at the Planning Committee meeting was regarding the sound attenuation, commonly known as the 'drop off level'. How far you can hear sound depends on many factors such as frequency, how the particular noise spreads out as sound travels, and whether or not there are any obstacles between the sound and the listener that may dampen the sound.

Logically, the further you are from the source of a sound, the more that sound's intensity will decrease and the less loud you will perceive it. According to engineers, you will generally be able to hear a 100 dB sound at a maximum of 16 meters or about 52 feet. Measurements were taken

from the Jackson County Geographical Information System, which show that the closest residential home from the proposed tunnel exit location in the rear will be just under 600 feet. The maximum sound coming from the carwash according to our own readings is just over 92 dB right as a car exits



the wash tunnel. By following the rule referenced above and calculating the sound attenuation, at 600 feet away, those neighbors are going to hear about 37.4 dB from the wash, *or just louder than a soft whisper*. Please note, this calculation does not factor in sound related to traffic or any other outside interference.

At the proposed Lee's Summit location, I took readings of the existing conditions at the nearest subdivision entrance of the residential homes (at Manor Lake Drive). The maximum as cars and trucks passed by on Highway 150 was 58.2 dB. The attenuation calculator projected this reading



MCBEE'S
COFFEE N CARWASH

to have been more in the 25-30 dB range because of the distance from the highway. The additional 20 to 30 decibels our readings showed were most likely being generated from music from cars filling up at the gas station in front (next door to the proposed location) and sound from neighbors in proximity. If one of those neighbors were to be mowing their lawn (typical lawnmower puts out 85 dBs), this would have thrown off the maximum level even further. It's important to remember that there is a large amount of interference always going on with these readings and there will continue to be even once a location is operational.

TRAFFIC NOISE COMPARISON

The Lee's Summit property falls in the middle of the Belton and North Little Rock averages of daily traffic counts according to the Department of Transportation along each main thoroughfare. The proposed Lee's Summit location shows about 5 to 10,000 cars east bound Highway 150, and 10 to 20,000 cars headed west bound Highway 150 on the MODOT traffic count map daily. At the property line facing the main thoroughfare on each site, the instantaneous level of noise was recorded at about 60-62 dB, when no cars were passing by. The Lmax (maximum) level of 79 to 82 dB was recorded as cars, large trucks, and delivery vehicles were driving by the site. A single vehicle driving by on Highway 150 instantly caused a higher reading than the city's commercial limit of 65 dB at the property line. There are residential homes on the southern, or east bound side of Highway 150, across from the proposed carwash. As presented during the planning meeting, these few homes are setback over 150 feet away minimum from the highway. When the initial noise questions came up at the Planning Meeting, the neighbors to the south were not a great concern. It is fairly assumed that the residential homes across the carwash on the southern side of the highway, will not be affected by any residual sound that the carwash produces since the distance and cars passing by already 'wash' any distant sounds away.

MOST 'REAL WORLD' READING

At Belton I was able to take a reading in the middle of the vacuum stall area, which I believe would be the best real-world comparison of how the proposed Lee's Summit location will sound like on a typical day. Belton's site plan is most like Lee's Summit proposed plan with vacuum stalls on both sides of the driveway, two turbines with similar (slightly less) horsepower, and traffic counts about the same

on the main frontage. There were cars continuously going through the wash during the hour that I was on site taking readings. Both turbine doors were closed as they normally should be. With the extreme Missouri heat, there were less people than normal vacuuming their cars; luckily, I was still





MCBEE'S
COFFEE N CARWASH

able to catch a reading with three people vacuuming. With all these factors, the reading was 70.7 dB in the middle of the vacuum area. While it was still over the city limit, it was not far off considering there were vacuums and traffic whirling around the site.

As normal, I was able to have a conversation with an employee passing by at a comfortable noise level. In no way were we trying to yell over the surrounding noises. Top notch customer service is a huge part of McBee's Coffee N Carwash employee standards. There is typically a wash tech assigned to the vacuum area simply to check over customer's cars once they are out of the wash, sign people up for memberships, and tidy up the area constantly. Wash techs can easily interact without worrying about interfering noise from the carwash.

I believe the only other area of concern that one may have would be the noise levels during our absolute busiest hours of operation. While Belton continuously had cars running through the wash during readings, there are times on Saturdays which cars can be back-to-back, squeezed in on the conveyor belt system, in turn using most or all the vacuum stalls simultaneously. I would encourage the council to consider the overall increase in noise during a weekend (such as lawns being mowed, music coming from cars, and increased traffic on the highway). Not only would the wash be creating the maximum possible level, but all other noise would also be at its highest as well. This goes to say for any other car wash or commercial business. Our car wash will be operating during normal waking hours, 7 AM to 9 PM on most days. The customer traffic and noise being generated from the wash is unlikely to ever be severe at 7 in the morning or after 7 in the evening when most neighbors would consider it a nuisance.

While it is possible that the proposed McBee's Coffee N Carwash could be over the city's sound limit of 65 dB at times, due to our proximity of residential neighbors and considering drop off levels with existing conditions, we do not feel that we will be a burden to the community. McBee's is committed to producing a development which values the needs of its surrounding neighbors. Thank you very much for taking the time to review this information and we appreciate your consideration of this proposed development. For more information or questions for McBee's, please refer to the applicant's contact information below or visit our website at McBeeCNC.com.

Thank you,

Ashley E. Smith
Preconstruction Project Manager
(816) 898-6454
ASmith@McBeeCompanies.com



VACUTECH

SOUND LEVEL METER READINGS

MODEL: FT-DD-T440HP3 (40hp T4 VACSTAR TURBINE VACUUM PRODUCER)

READING ONE: 60 DB-A, 3 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

READING TWO: 56 DB-A, 10 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

READING THREE: 51 DB-A, 20 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

READING FOUR: 44 DB-A, 30 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

NOTE: THESE READINGS WERE TAKEN OUTSIDE OF 8'x10'x8' CINDER BLOCK ENCLOSURE WITH CONCRETE SLAB AND NO ROOF.

SOUND LEVEL METER USED:

SIMPSON MODEL #40003 – MSHA APPROVED.

MEETS OSHA & WALSH-HEALY REQUIREMENTS FOR NOISE CONTROL.

CONFORMS TO ANSI S1.4-1983, IEC 651 SPECS FOR METER TYPE.

Vacutech
1350 Hi-Tech Drive, Sheridan WY, 82801
PHONE: (800) 917-9444 FAX: (303) 675-1988
EMAIL: info@vacutechllc.com
WEB SITE: vacutechllc.com



SOUND LEVEL METER READINGS

MODEL: FT-DD-T330HP4 (30HP TURBINE VACUUM PRODUCER)

READING ONE: 69 DB-A, 10 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

READING TWO: 54 DB-A, 20 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

READING THREE: 38 DB-A, 30 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

SOUND LEVEL METER USED:

SIMPSON MODEL #40003 – MSHA APPROVED.

MEETS OSHA & WALSH-HEALY REQUIREMENTS FOR NOISE CONTROL.

CONFORMS TO ANSI S1.4-1983, IEC 651 SPECS FOR METER TYPE.

Vacutech
1350 Hi-Tech Drive, Sheridan WY, 82801
PHONE: (800) 917-9444 FAX: (303) 675-1988
EMAIL: info@vacutechllc
WEB SITE: vacutechllc.com

Lee's Summit Proposed McBee's Coffee N Carwash Location

1295 SW Arborwalk Blvd., Lee's Summit, MO

Projected Turbine Horsepower: 40 (2 TURBINES ON SITE, 10 VACUUM STALLS PER TURBINE)

Date: 7/19/22	Instantaneous Level	LAmaz	
A	59.7	61.5	Back of lot
B	56.8	60.9	Back of lot
C	62.2	79.3	along HWY 150
D	60.3	82.1	along HWY 150, nearest traffic light
P -Closest residential	55.3	58.2	~600ft away from tunnel exit- Manor Homes entrance (SW Manor Lake Dr behind Meiners)
Q - 2nd closest	52.5	55.5	~800ft away from tunnel exit- Arbor Park entrance (SW Arbor Park Dr)
R -3rd closest	57.2	64.5	~1500ft away from tunnel exit- Near SW Ward Rd & Arbor Mill subdivision

TESTED WITH VLIKE VL6708 DIGITAL SOUND LEVEL METER CONTINUOUSLY FOR 1 MINUTE

McBee's Coffee N Carwash

590 E. North Ave. Belton, MO

Turbine Horsepower- 30 (2 TURBINES ON SITE, 6-7 VACUUM STALLS PER TURBINE)

Date: 7/19/22	Instantaneous Level	LMax	
A	55.7	57.9	
B	57.9	60.2	
C	62.8	67.9	along North Ave (main thoroughfare)
D	65.3	70.1	along North Ave (main thoroughfare)
E	58.1	61.2	
F	62.9	70.7	middle of vacuum stall area
G	70.5	71.7	Outside of Turbine #1 door closed
H -TURBINE #1 *	76.2	87.2	Inside Turbine #1 door closed
I	86.5	92.5	outside tunnel at exit
J	105.5	108.1	Inside tunnel at exit (reader was in middle of blowers with car going thru)
K	65	97.4	
L	61.2	85.7	
M	50.9	59.9	
N - TURBINE #2 *	74.4	81.5	Inside Turbine #2 door closed
O	69.1	69.9	Outside of Turbine #2 door closed

TESTED WITH VLIKE VL6708 DIGITAL SOUND LEVEL METER CONTINUOUSLY FOR 1 MINUTE

***REFER TO VACUTECH SOUND LEVEL METER READINGS FOR MOST ACCURATE TURBINE INFORMATION**

McBee's Coffee N Carwash

4315 E. McCain Blvd., North Little Rock, AR

Turbine Horsepower- 50 (1 TURBINE ON SITE, SUPPORTS 12 VACUUM STALLS)

Date: 7/19/22	Instantaneous Level	LAeq	Lmax	LCpeak	TWA	Dose	Projected Dose
A	57.3	96.8	125.7	N/A	47.9	0.00%	8%
B	60.8	61.8	75	N/A	N/A	N/A	N/A
C	64.3	66.9	85.2	109.3	N/A	N/A	N/A
D	65.7	67.8	85.9	101.8	N/A	N/A	N/A
E	75.6	74.2	81.6	104.2	N/A	N/A	N/A
F	70.4	67.4	78.7	104.2	N/A	N/A	N/A
G	84	83.3	85.8	107	56.5	0.10%	67.90%
H -TURBINE*	89.8	90.2	92.6	114.1	63.3	0.70%	327.90%
I	67.1	87.3	92.4	105.5	60.6	0.40%	169.10%
J	73.4	69.7	80.6	95.9	N/A	N/A	N/A
K	68.7	68.8	88.4	100.4	35.1	0.00%	0.50%
L	61.5	62.3	72.4	97.4	N/A	N/A	N/A
M	60.3	63	79.3	102.1	N/A	N/A	N/A

At back corner of lot, max thrown off by neighboring property

along McCain Blvd (main thoroughfare)

along McCain Blvd (main thoroughfare)

Closest to McCain Blvd (main thoroughfare)

Outside exit door

TESTED WITH NIOSH SLM SOUND METER CONTINUOUSLY FOR 1-MINUTE

Detailed readings provided with calibrated and approve NIOSH sound meter.

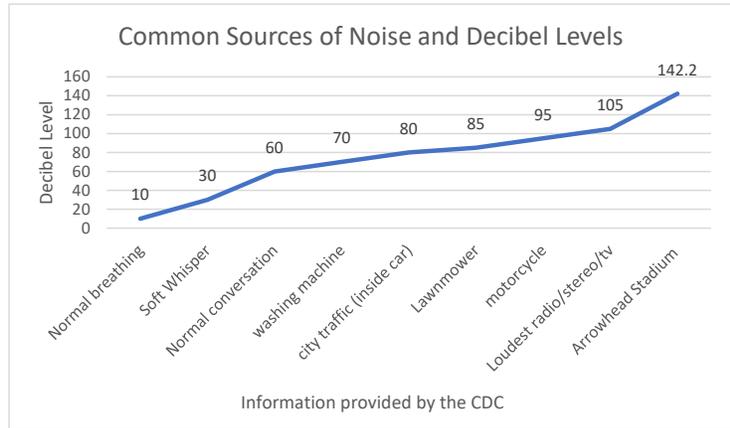
***REFER TO VACUTECH SOUND LEVEL METER READINGS FOR MOST ACCURATE TURBINE INFORMATION**

KEY OF POINTS MEASURED ON SITE PLAN

A	Corner of Lot	Away from traffic
B	Corner of Lot	Away from traffic
C	Corner of Lot	Along main throughfair/traffic
D	Corner of Lot	Along main throughfair/traffic
E	Corner of lot	Near Tunnel Exit
F	Middle	Vacuum Stall Area
G	Outside enclosure	Turbine #1 (door closed)
H	Inside enclosure	Turbine #1
I	Outside	Tunnel Exit
J	Inside	Tunnel Exit (near dryers)
K	Inside	Tunnel Entrance
L	Outside	Tunnel Entrance
M	Outside	Pay Station Kiosk/Customer Interaction
N (Belton only)	Inside enclosure	Turbine #2 & dumpster area
O (Belton only)	Outside enclosure	Turbine #2 & dumpster area (door closed)
P (LS only)	Closest Residential	
Q (LS only)	2nd Closest Res.	
R (LS only)	3rd Closest Res.	

Common Sources of Noise and Decibel Levels

Normal breathing	10
Soft Whisper	30
Normal conversation	60
washing machine	70
city traffic (inside car)	80
Lawnmower	85
motorcycle	95
Loudest radio/stereo/tv	105
Arrowhead Stadium	142.2



https://www.cdc.gov/nceh/hearing_loss/what_noises_cause_hearing_loss.html

SITE LAYOUT PLAN

McBEE'S COFFEE 'N CARWASH

BELTON, CASS COUNTY, MISSOURI

DEVELOPER:
McBEE CUSTOM HOMES
 Ph.# 816-898-5976

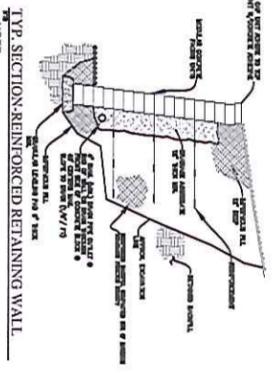
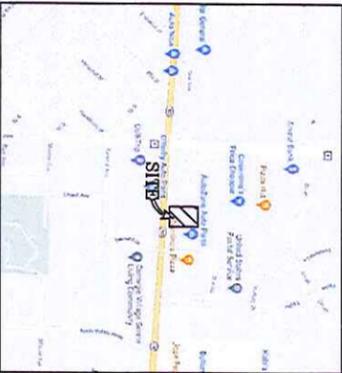
RESPONSOR:
 LOT OF CREST PLAZA SECOND PLAT
 A SUBDIVISION IN BELTON, CASS COUNTY, MISSOURI

LINE LEGEND

PROPOSED	EXISTING
Swim Line	Swim Line
Sonotex Line	Sonotex Line
Water Line	Water Line
Building Line	Building Line
Essential Line	Essential Line
4" Sewer	4" Sewer
2" Curb	2" Curb
Contour	Contour
Tree Line	Tree Line
Fence Line	Fence Line
Gas Line	Gas Line
Overhead Telephone Line	Overhead Telephone Line
Underground Telephone Line	Underground Telephone Line
Overhead Electrical Line	Overhead Electrical Line
Underground Electrical Line	Underground Electrical Line

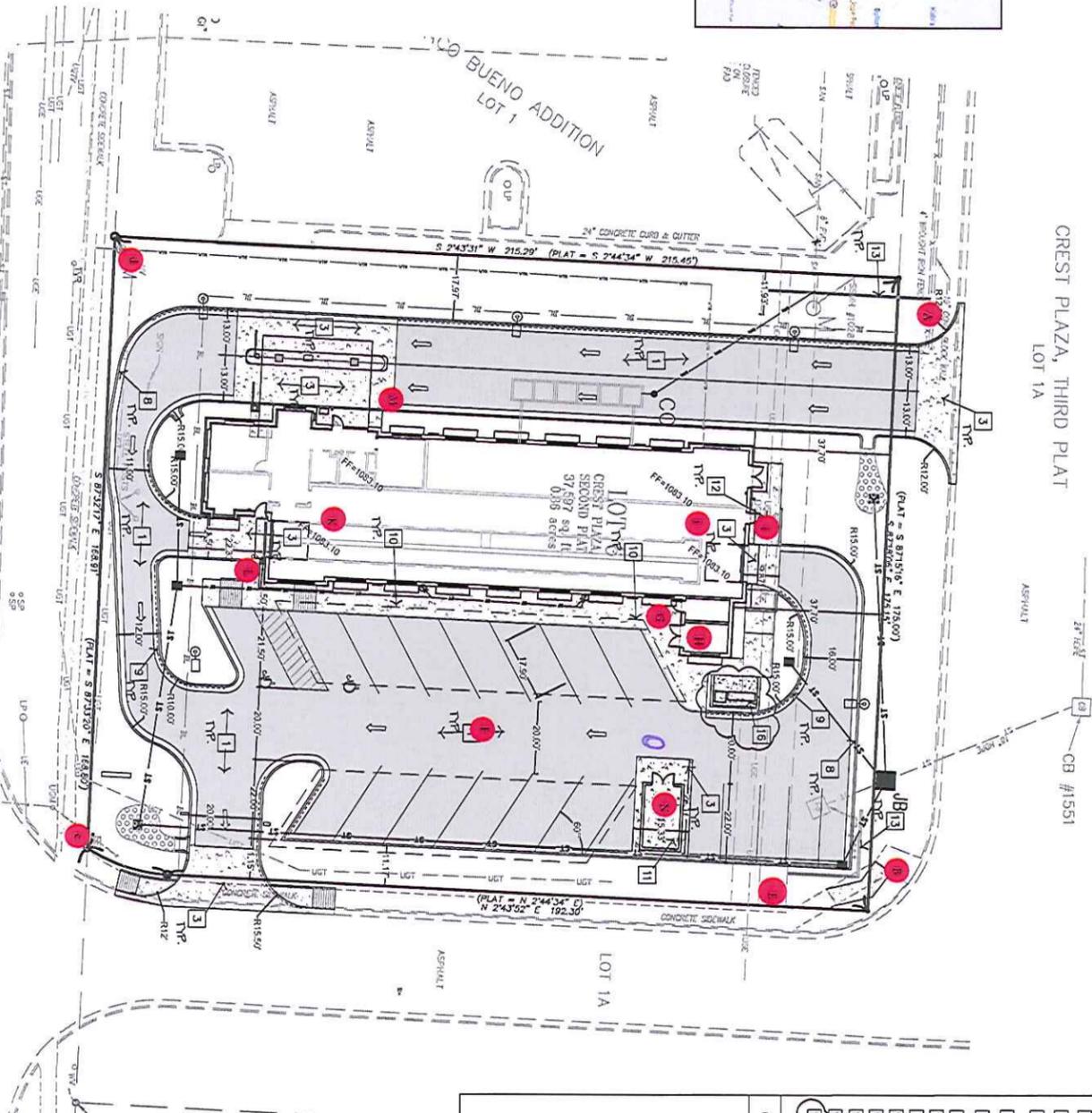
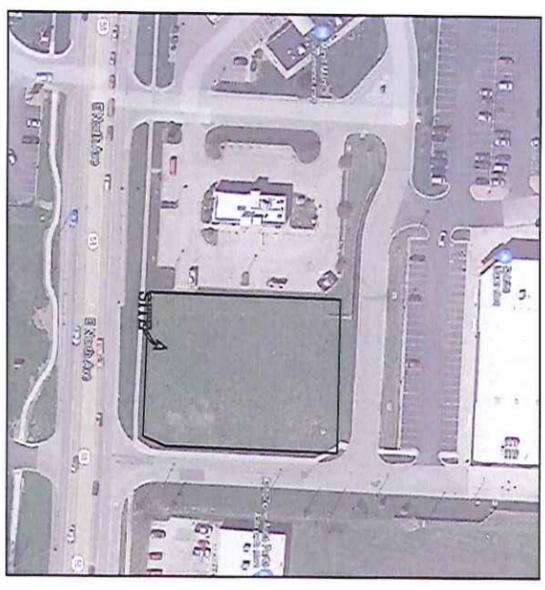
SYMBOL LEGEND

PROPOSED	EXISTING
Morlock	Morlock
Curb Inlet	Curb Inlet
Junction Box	Junction Box
Field Inlet	Field Inlet
Fire Hydrant	Fire Hydrant
Box Off	Box Off
Water Valve	Water Valve
Water Meter	Water Meter
Shredder	Shredder
Utility Pole	Utility Pole
Qty Wire	Qty Wire
Electric Transformer	Electric Transformer
Telephone Pedestal	Telephone Pedestal
Cable Pedestal	Cable Pedestal
Clean Out	Clean Out



NOTE:
 1. MAX HEIGHT THIS PROJECT IS 3.5 FEET

- PRIVATE IMPROVEMENTS NOT FOR BIDS**
1. CURB/CURB WALK=ft
 2. PAVEMENT=ft
 3. CONCRETE SIDEWALK=ft
- PUBLIC IMPROVEMENTS**
1. NONE



NORTH AVE (STATE RTE 58)
 ASPHALT SURFACE (RIGHT OF WAY WIDTH VARIES)



- #### PLAN NOTES:
1. HEAVY ASPHALT PAVEMENT RE: SEE SHEET C210
 2. LIGHT CONCRETE PAVEMENT RE: SEE SHEET C210
 3. HEAVY CONCRETE PAVEMENT RE: SEE SHEET C210
 4. ACCESSIBILITY RAMP RE: SEE SHEET C210
 5. PAINT ACCESSIBLE PARKING SPACES ACCORDING TO ADA PAVEMENT MARKING STANDARDS. RE: SEE SHEET C210
 6. INSTALL ACCESSIBLE PARKING SIGN "TYPE B"
 7. STRIPE PAVING WITH 4" WIDE STRIPE & PAINT ACCORDING TO ADA PAVEMENT MARKING STANDARDS. RE: SEE SHEET C210
 8. STRAIGHT BACK CURB & CUTTER (NET) RE: SEE SHEET C210
 9. STRAIGHT BACK CURB & CUTTER (GR) RE: SEE SHEET C210
 10. CURB WALK RE: SEE SHEET C210
 11. EQUIPMENT/RAMP ENCLOSURE RE: SEE ARCHITECTURAL PLANS
 12. CONCRETE FURVE RE: SEE SHEET C210
 13. RETAINING WALL RE: SEE SHEET C210
 14. CONCRETE FURVE RE: SEE SHEET C210
 15. 5" O.D. SEWERMAN HO. SEE CITY DETAILS
 16. DOO WASH PAD RE: SEE ARCHITECTURAL PLANS

- #### GENERAL NOTES:
1. COMPACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
 2. PERFORM TEMPORARY EROSION CONTROL MEASURES IN ACCORDANCE WITH ALL STATE & LOCAL REQUIREMENTS. TEMPORARY EROSION CONTROL IMPROVEMENTS ARE IN PLACE.
 3. ALL PARKING STRIPS SHALL BE MARKED WITH A 4" WIDE STRIPE. PARKING STRIPES TO BE PAINTED ACCORDING TO SPECIFICATIONS.
 4. CONSTRUCT ALL SIDEWALKS WITH 2" DOWNSLOPE UNLESS OTHERWISE SHOWN ON PLANS.
 5. PLACE EXPANSION JOINTS IN ACCORDANCE WITH ALL DIMENSIONS AND ALL DISCRETION CHANGES AND WHEN ADJACENT TO BUILDINGS, UNLESS OTHERWISE NOTED.
 6. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
 7. LAYOUT ALL STREETS AND PAVEMENT APPROX. TO LINES SHOWN. FINAL APPROVAL BY ARCHITECT PRIOR TO COMMENCEMENT.

UTILITY NOTES:

1. PUBLIC SANITARY SEWER MAIN EXTENSION IS NOT PROPOSED WITH THIS PROJECT.
2. PUBLIC WATER MAIN EXTENSION IS NOT PROPOSED WITH THIS PROJECT.

PERVIOUS VS IMPVIOUS CALCULATIONS

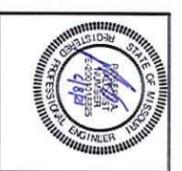
LOT SIZE	37,597SF
IMPERVIOUS SURFACES	5,955SF
BUILDINGS/SIDWALKS	1,000SF
DRIVES/PARKING	29,100SF
WALKS/MISC.	29,100SF
TOTAL	77% IMPVIOUS

23% PERVIOUS (GREEN)

STORM WATER / BMP NOTES
 1. THIS LAND IS PART OF THE REGIONAL DETENTION BASIN
 SO NO DETENTION IS PROPOSED WITH THIS PROJECT.

SITE LAYOUT PLAN

PROJECT CONTACTS: ROBERT WALQUIST, P.E.
 821 NE COLUMBUS ST.
 LEES SUMMIT, MISSOURI 64063
 Phone: 816-898-5976



McBee's Coffee 'N Carwash

BELTON, CASS COUNTY, MISSOURI

Quist Engineering, Inc
 Civil Engineering for Residential & Commercial Site Development
 821 NE Columbus St.
 Lee's Summit, Missouri 64063
 Phone: (816) 898-5976
 email: rwalquist@quistengineering.com

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DATE: 11-13-20

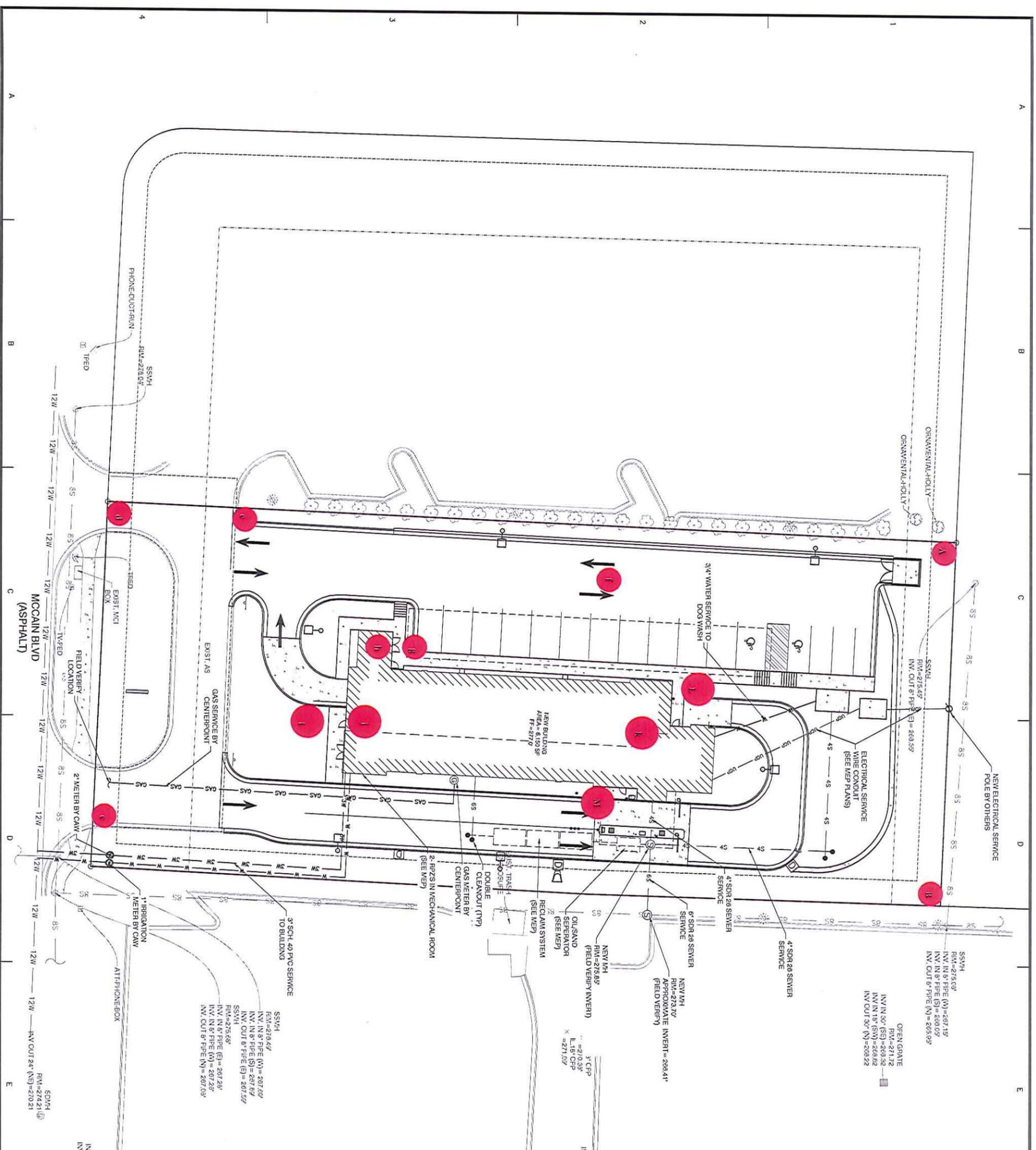
REVISIONS:

4-28-21	
6-8-21	

SHEET NO. **C200**

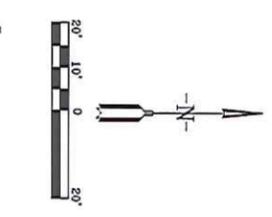
DATE: 11-13-20

PROJECT NO. **E20-318**



- UTILITY NOTES:**
1. ALL WATER WORK SHALL COMPLY WITH THE REQUIREMENTS OF CENTRAL ARKANSAS WATER STANDARD SPECIFICATIONS AND THE ARKANSAS PLUMBING CODE. CENTRAL ARKANSAS WATER SPECIFICATIONS ARE AVAILABLE FOR DOWNLOAD FROM WWW.CARKW.COM.
 2. ALL WASTEWATER WORK SHALL COMPLY WITH THE REQUIREMENTS OF NORTH LITTLE ROCK WASTEWATER STANDARD SPECIFICATIONS AND THE ARKANSAS PLUMBING CODE. NORTH LITTLE ROCK WASTEWATER STANDARDS AND SPECIFICATIONS ARE AVAILABLE FOR DOWNLOAD FROM NLRAR.GOV.
 3. ALL GAS WORK SHALL COMPLY WITH THE REQUIREMENTS OF CENTERPOINT AND THE ARKANSAS PLUMBING CODE.

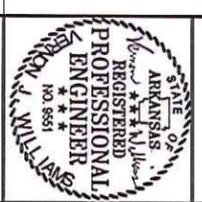
SSVH
 RIM=2719.44'
 INV. IN 8" PIPE (W)=287.69'
 INV. IN 8" PIPE (S)=287.67'
 INV. OUT 8" PIPE (E)=287.59'
 SSVH
 RIM=2719.68'
 INV. IN 8" PIPE (E)=287.28'
 INV. IN 8" PIPE (N)=287.28'
 INV. OUT 8" PIPE (W)=287.58'



DATE	REVISION	BY
06/07/21	3. REVISED PER OWNER	ATV

GNE Designing our client's success
GarNat Engineering, LLC
 P.O. Box 116 3825 Mt Carmel Rd
 Benton, AR 72018 Bryant, AR 72022
 Ph (501) 408-4650 garnatengineering@gmail.com

MCBEE COFFEE & CAR WASH
NORTH LITTLE ROCK, ARKANSAS
SMOKEY LANE LLC



04-01-2020
 CONTENTS:
 UTILITY PLAN
 PROJECT NO:
 20180
 DATE:
 3-31-21
 SHEET NO:

C2.0

J:\Projects\2020 Projects\20180 MCBEE Coffee and Carwash\Drawings\DWG\Design\20180 MCBEE Coffee and Carwash Design.dwg

