



2601 T.P. White Drive
Jacksonville, AR 72076

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August 4, 2026

Mr. Adam Whitlow, P.E., P.S.
City Engineer
City Hall
#1 Municipal Drive
Jacksonville, AR 72076

RE: Old Hogan Paint Facility, Redmond Road

Dear Mr. Whitlow

We are attaching detailed plans for the new parking lots at the old Hogan Paint facility. We have also attached copies of our drainage calculations for the new paving.

It was our understanding the original facility was constructed prior to the new drainage design criteria. We have designed drainage retention that exceed the retention for the added runoff from the new parking areas.

Feel free to call or email with questions concerning the new parking areas.

Sincerely,

A handwritten signature in black ink, appearing to read "Tommy Bond", with a stylized flourish extending from the end of the name.

Tommy Bond, PE PS

cc: Ken King, Lockeby and Associates
BCE Job # 11233



BOND CONSULTING ENGINEERS, INC.

2601 T.P. WHITE DRIVE
JACKSONVILLE, ARKANSAS 72076

JOB NO. 11233

DATE July 14, 2026

PROJECT Hogan Print - OKSI

Drainage Calculations

Bldgs. Exist

$$\begin{aligned} "A" &= 22 \times 12 + 124 \times 148 + 6 \times 18 + 13 \times 73 \\ &= 264 + 18352 + 108 + 949 \\ &= \underline{19673 \text{ sq. ft.}} \end{aligned}$$

$$"B" = 80 \times 40 = \underline{3200 \text{ sq. ft.}}$$

$$"C" = 46 \times 80 + 10 \times 30 = 3680 + 300 = \underline{3980 \text{ sq. ft.}}$$

$$\begin{aligned} "D" &= 80 \times 125 + 10 \times 55 + 20 \times 17 \\ &= 10,000 + 550 + 340 \\ &= \underline{10,890 \text{ sq. ft.}} \end{aligned}$$

$$"E" = 115 \times 35 + 25 \times 8 = 4025 + 200 = \underline{4225 \text{ sq. ft.}}$$

Cover
Parking

$$"F" = 20 \times 130 = \underline{2600 \text{ sq. ft.}}$$

$$\begin{aligned} \text{Total Bldgs} &= 19676 + 3200 + 3980 + 10,890 + 4225 + 2600 \\ &= \underline{\underline{44,571 \text{ sq. ft.}}} \end{aligned}$$



BOND CONSULTING ENGINEERS, INC.
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PROJECT Hogau Pkwy - OKSI

ASPHALT PAVING
& Concrete Sidewalk

$$\begin{aligned}\text{Asphalt} &= 18' \times 75' + 34' \times 28' + 110' \times 65' + 64' \times 60' \\ &\quad 50' \times 60' + 80' \times 24' \\ &= 1350 + 952 + 7150 + 384 + 300 + 1920 = \underline{\underline{13,056 \text{ sf}}}\end{aligned}$$

$$\begin{aligned}\text{Sidewalk} &= 35' \times 4' + 4' \times 60' + 130' \times 5' + 5' \times 130' + 4' \times 80' \\ &\quad 140 + 240 + 650 + 650 + 320 \\ &= \underline{\underline{2000 \text{ SF}}}\end{aligned}$$

TOTAL SURFACE AREA

$$\begin{aligned}A &= \frac{331.67 + 331.75}{2} \times \frac{597.66 + 597.34}{2} = 331.71 \times 597.5 = \\ &= 198,196.725 / 43560 = \underline{\underline{4.55 \text{ Acres}}}\end{aligned}$$

$$\begin{aligned}Q_{\text{EXIST Bldgs}} &= 44,571 / 43560 \times 0.95 \times 8' = 1.023 \times 7.6 \\ &= \underline{\underline{7.7748 \text{ cfs}}}\end{aligned}$$

$$\begin{aligned}Q_{\text{EXIST Pavements}} &= \frac{13,056 + 2000}{43560} \times 0.9 \times 8' = 0.346 \times 7.6 = \underline{\underline{2.627 \text{ cfs}}}\end{aligned}$$

$$\begin{aligned}\text{Current Storm Water} &= 7.7748 + 2.627 = \underline{\underline{10.402 \text{ cfs}}} \\ \text{Bldgs + Pavements}\end{aligned}$$

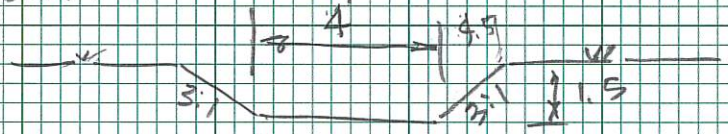
New Storm Water

$$\begin{aligned}\text{Parking 42} &= 220 \times 64 = 14080 \text{ SF} \\ \text{Parking 7} &= 70 \times 20 = 1400 \text{ SF} \\ \text{Parking 36} &= 190 \times 64 + 24 \times 60 = 12160 + 1440 = \\ Q &= 29,080 / 43560 \times 0.95 \times 8' = 0.668 \times 7.6 = \underline{\underline{5.0736 \text{ cfs}}}\end{aligned}$$

Time of Concentration - Use 5 min

Storm Water Retention = $5.0736 \times 5 \times 60 = 1522.08 \text{ cu. ft.}$

Ditch Retention

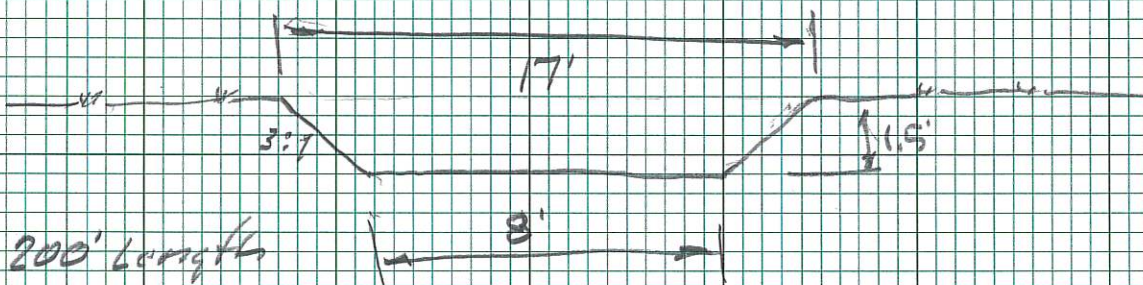


Area = $8.5 \times 1.5 = 12.75 \text{ sq. ft. / ft.} = 119.38'$



Area = $10.5 \times 1.5 = 15.75 \text{ sq. ft. / ft.} = 96.64'$

Area = $12.5 \times 1.5 = 18.75 \text{ sq. ft. / ft.} = 81.2'$



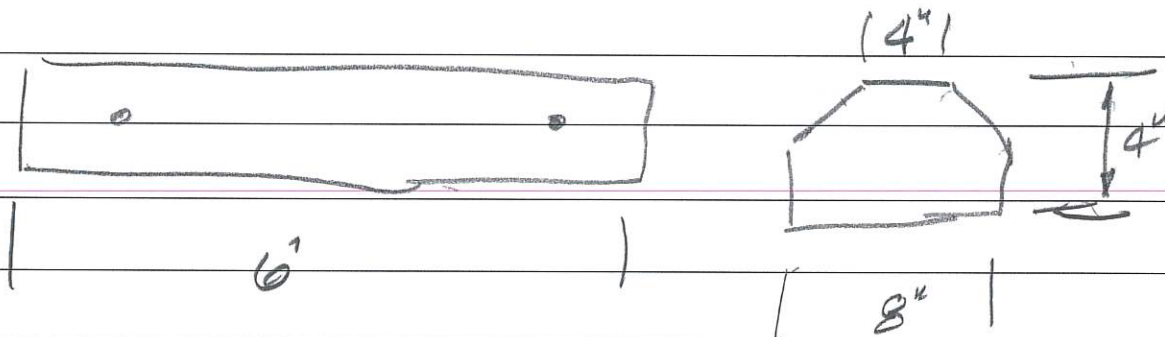
PROPOSED DITCH/RETENTION BASIN

Storage $18.75 \text{ sq. ft.} \times 200' = 3750.0 \text{ cu. ft.}$

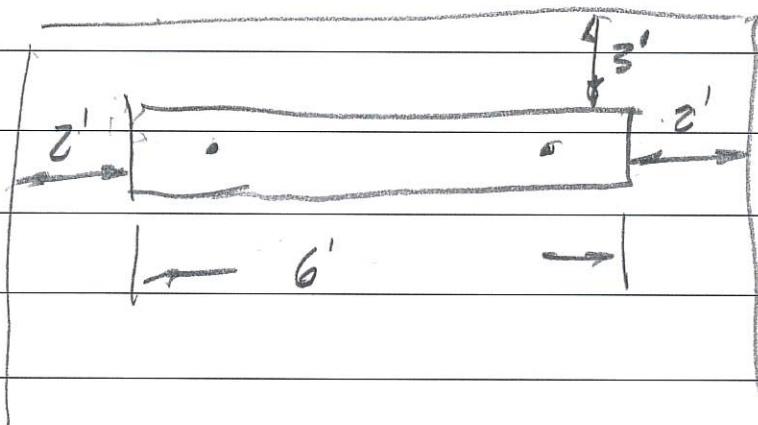
$3750 / 1522.08 \text{ (Required)} = 2.46 \text{ safety factor}$



Office Supplies | Janitorial | Printing | Furniture | Promotional | Engraving



STANDARD CONCRETE PARKING BLOCKS



ANCHOR W/ H04
REBAR - 12" LONG



BOND CONSULTING ENGINEERS, INC.

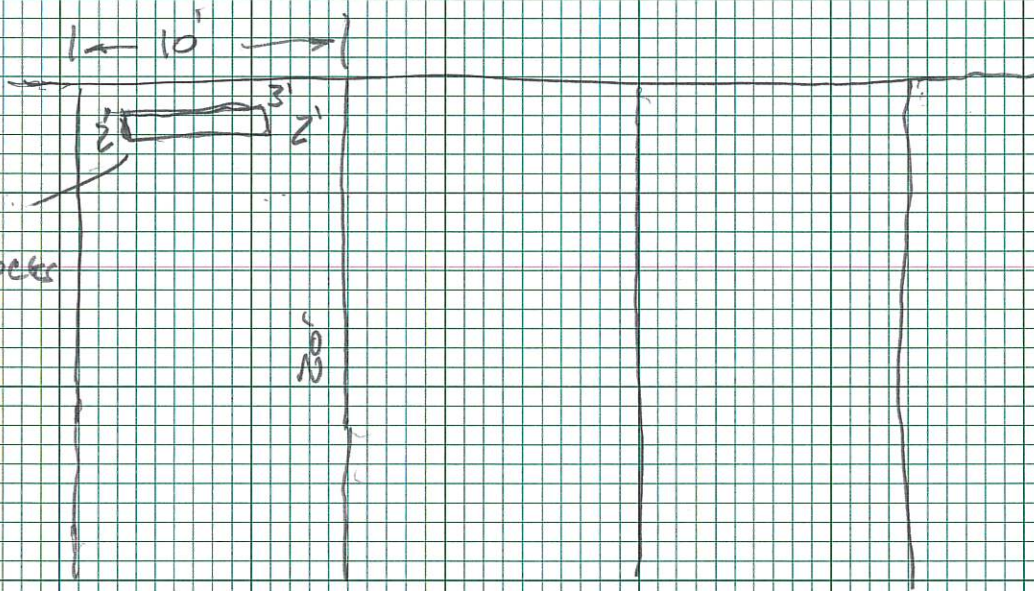
2601 T.P. WHITE DRIVE
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DATE _____

PROJECT _____

STANDARD
PARKING SIGN
6' x 8' x 4"





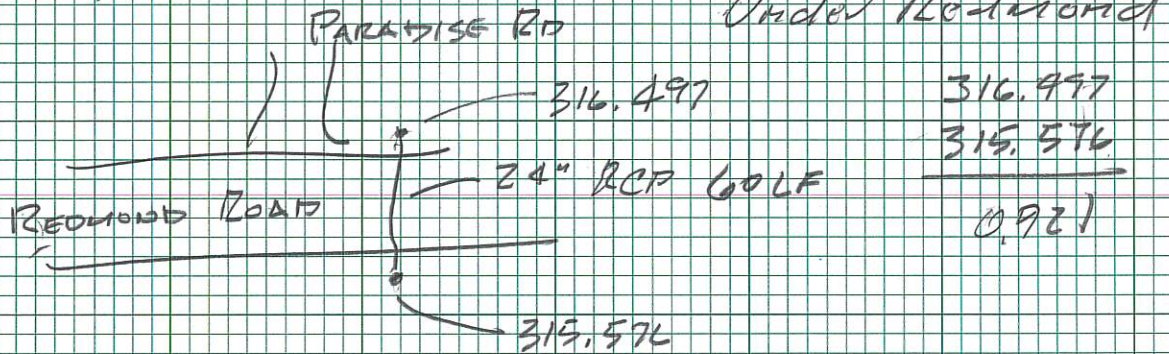
BOND CONSULTING ENGINEERS, INC.
2601 T.P. WHITE DRIVE
JACKSONVILLE, ARKANSAS 72076

JOB NO. 11233

DATE July 17, 2026

PROJECT Storm Drainage

Hogan Brist Property:



$$\frac{0.921}{0.60} = 1.535 / 100'$$

$$24" \text{ RCP } n = 0.013$$

$$1.25/1000 \text{ } Q_{\text{pipe}} = 25.29$$

$$1.50/1000 \text{ } Q_{\text{pipe}} = 27.71$$

$$1.75/1000 \text{ } Q_{\text{pipe}} = 29.93$$

$$\begin{array}{l} 2.42 \\ 2.22 \end{array} \left[\begin{array}{l} 1.535 \\ 0.75 \end{array} \right] 0.14$$

$$\begin{aligned} Q_{\text{EXIST PIPE}} &= 27.71 + 0.14 \times 2.22 \\ &= 27.71 + 0.31 \end{aligned}$$

Exist 24" RCP = 28.02 cfs Carrying Capacity
Flow Under Redmond Road



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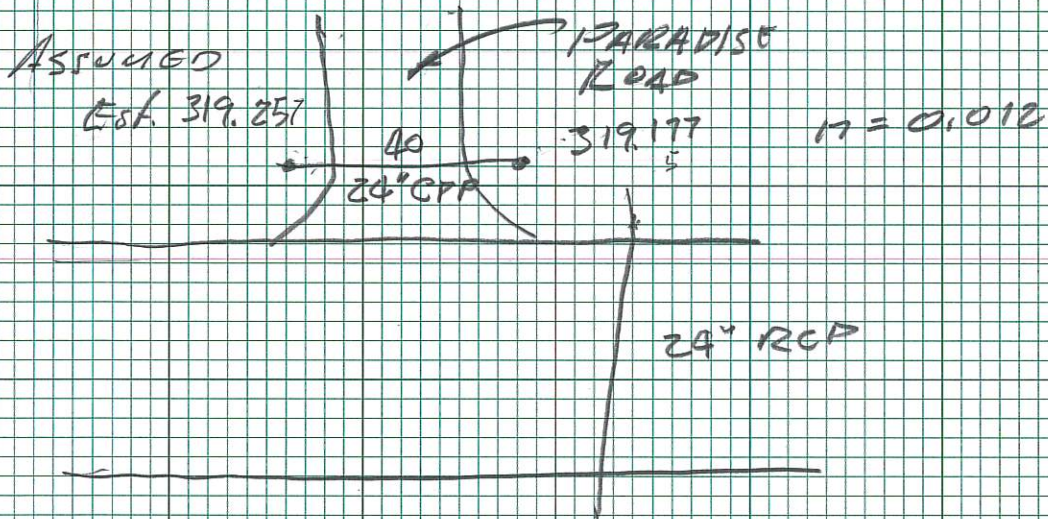
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DATE July 17, 2020

PROJECT STORM DRAINAGE



$$\text{GRADE } 0.05/40 = 0.125$$

$$n = 0.012$$

$$\begin{aligned} 24" \text{ CMP } 0.10'/100 \quad Q &= 7.75 \text{ cfs} \\ 0.20'/100 \quad Q &= 10.96 \end{aligned} \quad \left. \begin{array}{l} \\ \end{array} \right\} 3.21$$

$$3.21 \times 0.025 = 0.080$$

$$Q_{\text{EXIST } 24"} = 7.75 + 0.080 = 7.83 \text{ cfs}$$

$$\text{Estimate } Q_{\text{IMPROVEMENTS}} = 5.0736 \text{ cfs}$$