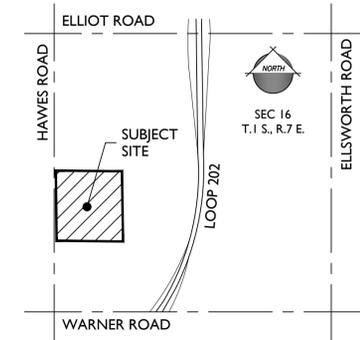


PRELIMINARY GRADING PLANS FOR HAVEN AT HAWES

A PORTION OF THE SOUTHWEST QUARTER OF SECTION 16
TOWNSHIP 1 SOUTH, RANGE 7 EAST OF GILA AND SALT RIVER MERIDIAN,
MARICOPA COUNTY, ARIZONA

VICINITY MAP
N.T.S.



PROJECT TEAM

OWNER
STEWART DEVELOPMENT II LLC
2929 E. MAIN STREET, LOT 150
MESA, AZ 85213

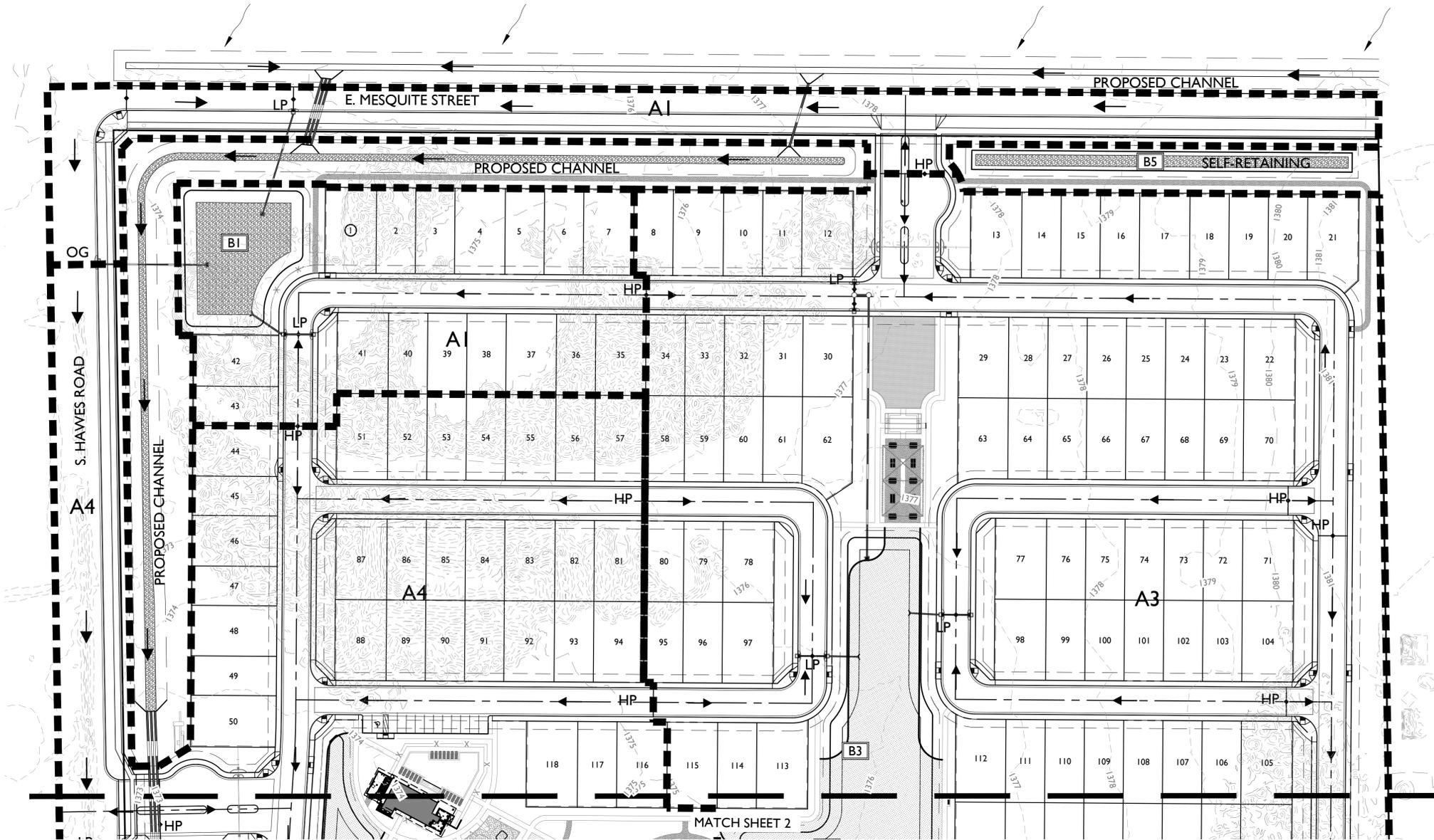
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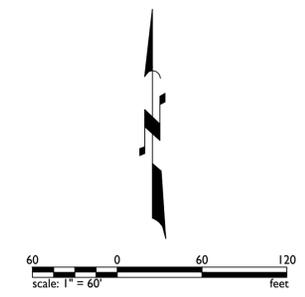
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310 E. RIO SALADO PARKWAY
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mark.panza@ablstudio.com



- B2** BASIN LABEL ID
- AZ PROPOSED DRAINAGE AREA ID
- HP PROPOSED HIGH POINT
- LP PROPOSED LOW POINT
- OG ON-GRADE INLET
- PROPOSED DRAINAGE ARROW
- OFFSITE DRAINAGE ARROW
- ▭ PROPOSED CATCH BASIN
- PROPOSED HEADWALL
- PROPOSED STORM DRAIN
- ▭ DRAINAGE AREA



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Haven at Hawes
Mesa, Arizona
Preliminary Grading Plans

Project:

Revisions:

Call at least two full working days before any begin excavation.

Designer: JSD
Drawn by: JSD



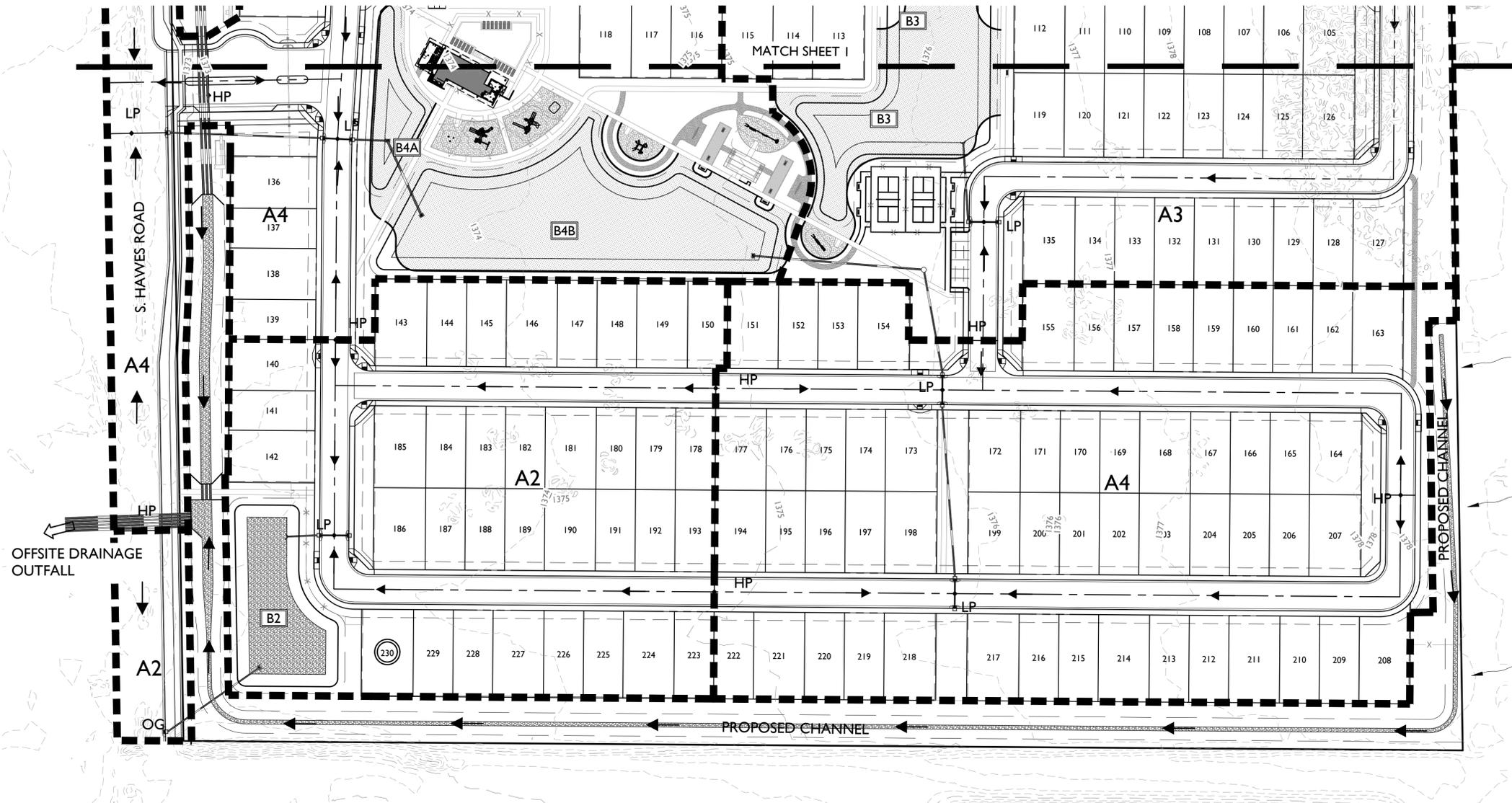
Job No.
24-0710

GD01

Sheet No.
1
of 2

24-0710 - Haven at Hawes - Preliminary Grading Plans

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Retention Calculations

Project: Haven at Hawes
 Storm Event: 100-yr 2-hr
 Prepared by: Jeffrey Ditgen
 Date: 9/29/2025

$V = C \cdot A \cdot P / 12^{(1)}$
 Where:
 V = Runoff Volume
 C = Runoff Coefficient
 A = Drainage Area
 P = 2.20 in

Surface Retention Basin Volume Calculations

Basin ID	Elevation	Area (ft ²)	Incremental Volume (ft ³)	Volume Provided, V _p (ft ³)
B1	0	8,588		
	3	13,711	33,419	33,419
B2	0	8,038		
	3	13,790	32,742	32,742
B3	0	22,608		
	3	35,363	88,957	88,957
B4A	0	987		
	3	4,758	8,618	8,618
B4B	0	23,350		
	3	34,299	86,474	86,474

Volume Required and Summary

Basin ID	Sub-Basin ID	Sub-Basin Area Description	Contributing Area (ft ²)	C =	Volume Required, V _r (ft ³)	Volume Provided, V _p (ft ³)	Estimated Water Depth (ft)
B1	A1	Local	78,551	0.80	11,227		
		Arterial	12,168	0.87	1,841		
		Collector	57,251	0.81	8,502		
		Open Space (Desert)	32,612	0.50	2,989		
		Total	178,582	0.75	24,559	33,419	2.21
B2	A2	Local	165,298	0.80	24,244		
		Arterial	15,001	0.87	2,393		
		Collector	22,213	0.50	2,036		
		Open Space (Desert)	32,298	0.51	2,115		
		Total	202,512	0.77	28,773	32,742	2.63
B3	A3	Local	458,218	0.80	67,205		
		Arterial	22,082	0.95	3,846		
		Collector	67,145	0.50	6,155		
		Open Space (Desert)	32,298	0.50	2,115		
		Total	584,653	0.74	79,321	88,957	2.74
B4	A4	Local	467,842	0.80	68,587		
		Arterial	27,360	0.95	4,765		
		Collector	65,746	0.87	10,498		
		Open Space (Desert)	42,460	0.50	4,351		
		Total	603,408	0.76	90,201	95,091	2.87

Notes:
 (1) Equation 2-4 taken from Pinal County Drainage Manual

Page 1 of 1

- B2** BASIN LABEL ID
- A2 PROPOSED DRAINAGE AREA ID
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Project: Haven at Hawes
 Mesa, Arizona

Preliminary Grading Plans

Revisions:

Designer: JSD
 Drawn by: JSD

Job No.
24-0710

Sheet No.
2
 of 2