

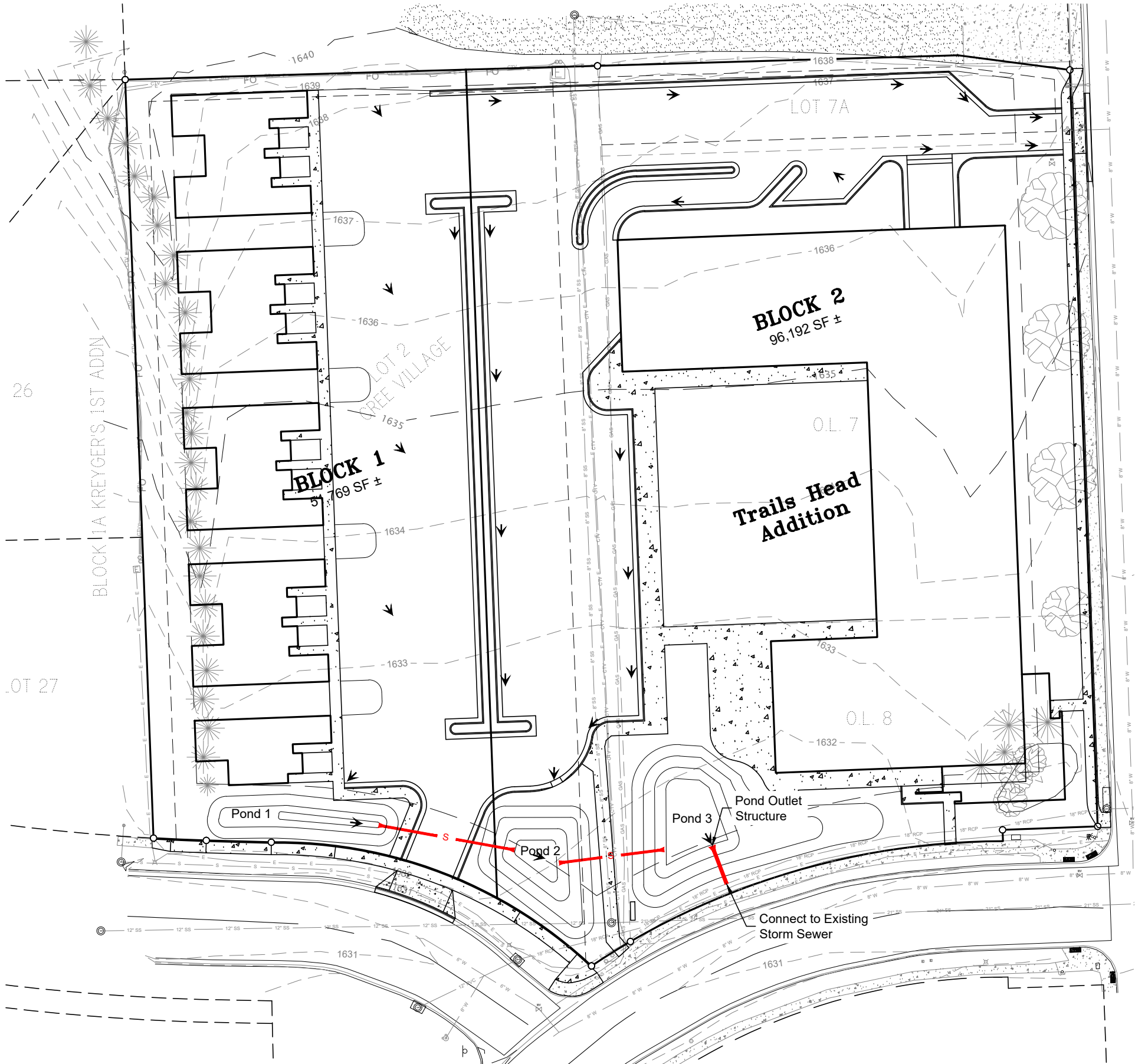
P:\Brookings Projects\2022-277 Mills Property Arise - Trail Head Development\Design\Preliminary Design\2022-277 Trail Head Prelim Design 3-23-23.dwg, Drainage Plan 11x17, 3/28/2023 10:57 AM, Andrew Kangas

Drainage Plan

PROPOSED DETENTION SUMMARY - POND 1	
Elevation	Area(sqft.)
1630.0	0
1631.0	438
1632.0	1,740
1632.5	2,877

PROPOSED DETENTION SUMMARY - POND 2	
Elevation	Area(sqft.)
1629.0	0
1630.0	348
1631.0	1,368
1632.0	3,150
1632.5	4,350

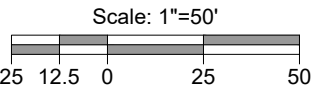
PROPOSED DETENTION SUMMARY - POND 3	
Elevation	Area(sqft.)
1628.5	0
1629.0	195
1630.0	1,240
1631.0	3,265
1632.0	6,788



EXISTING DRAINAGE SUMMARY				
SUB-BASIN	AREA(acre)	IMPERVIOUS AREA (%)	Q5(CFS)	Q100(CFS)
1	3.1	0	2.12	7.36

PROPOSED DRAINAGE SUMMARY				
SUB-BASIN	AREA(acre)	IMPERVIOUS AREA (%)	Q5(CFS)	Q100(CFS)
1	3.1	64	2.04	7.10

PROPOSED DETENTION DEPTH		
Pond	Design Event	Water Depth (ft.)
1	Q-5	1.4
	Q-100	1.7
2	Q-5	2.4
	Q-100	2.7
3	Q-5	2.9
	Q-100	3.2



PRELIMINARY

Trails Head

CAD Filename:

Preliminary Design

CDI Project No.

2022-277

Drawn By:

JLU

Checked By:

JDP

Scale:

1" = 50'

Date:

3/28/2023



609 Main Ave S
Brookings, SD
605-696-3200

Sheet No:

3

of No:

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