

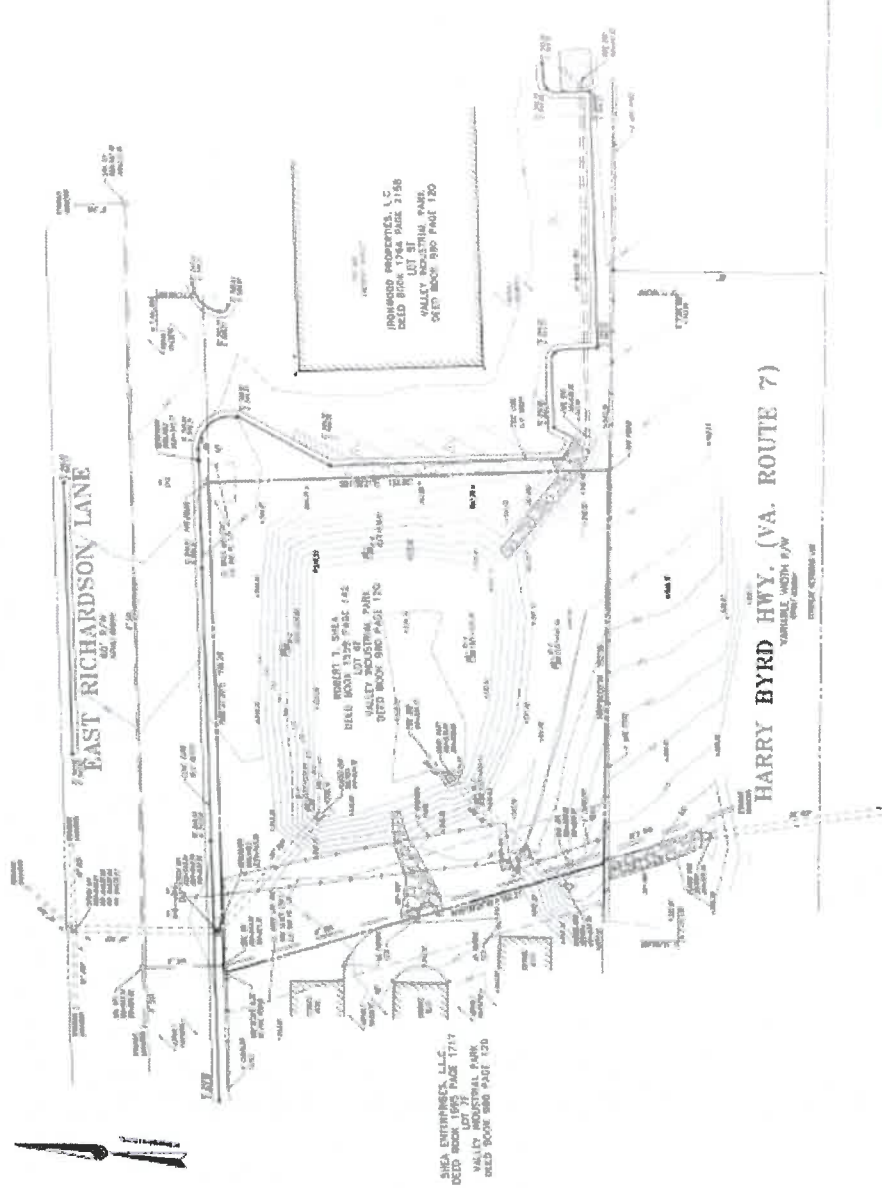
Bohler Engineering

For:

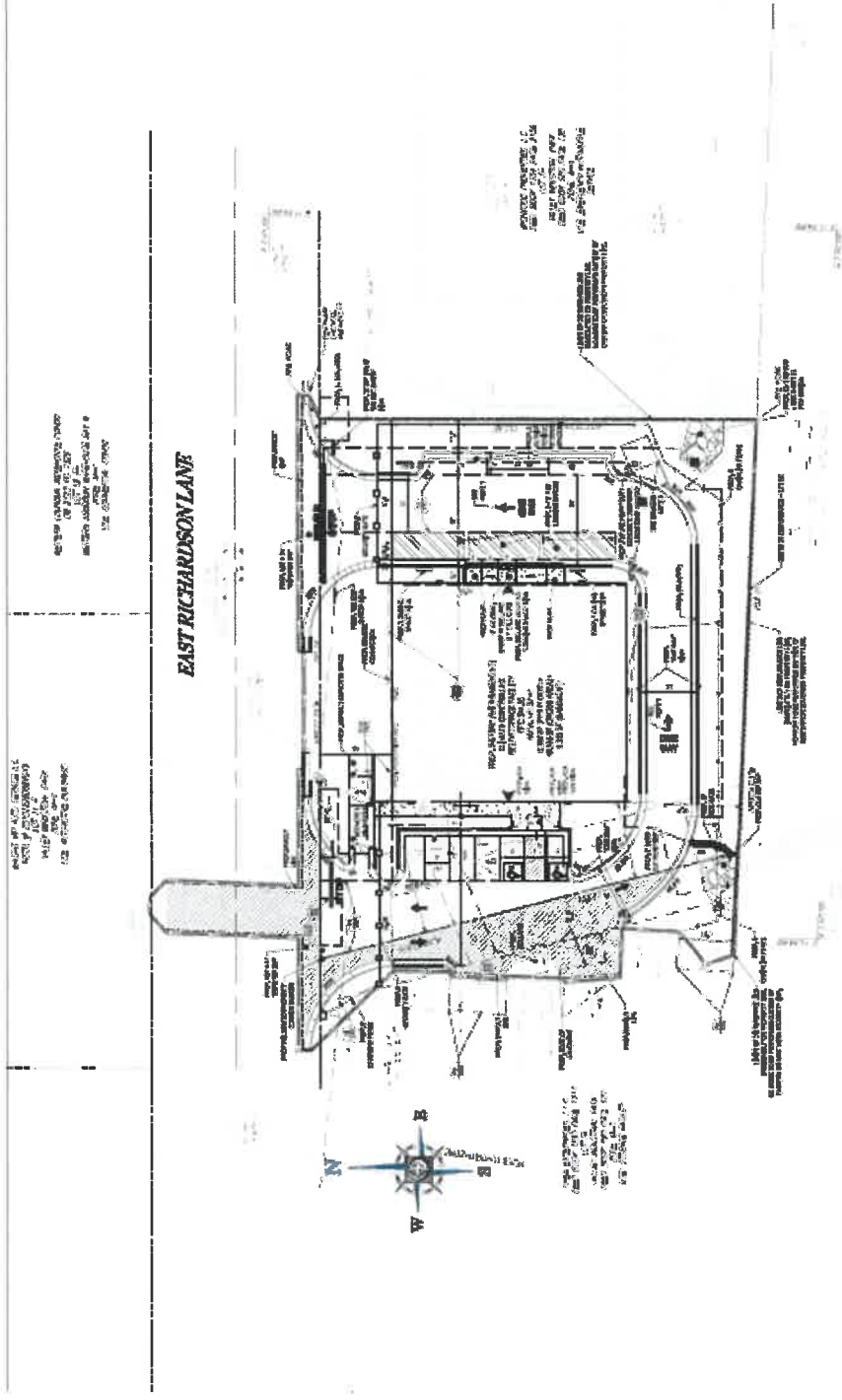
Valley **SELF STORAGE**

Valley Industrial Park, Lot 6F
Self Storage Facility
TP15-10

Lot 6F Application Overview

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Lot 6F Application Overview



Lot 6F Application Overview

What is there today?

- Aboveground pond
- 6.60 Acres Drain there currently
- 4.35 Acres Impervious exist offsite



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Lot 6F Application Overview

What is being provided?

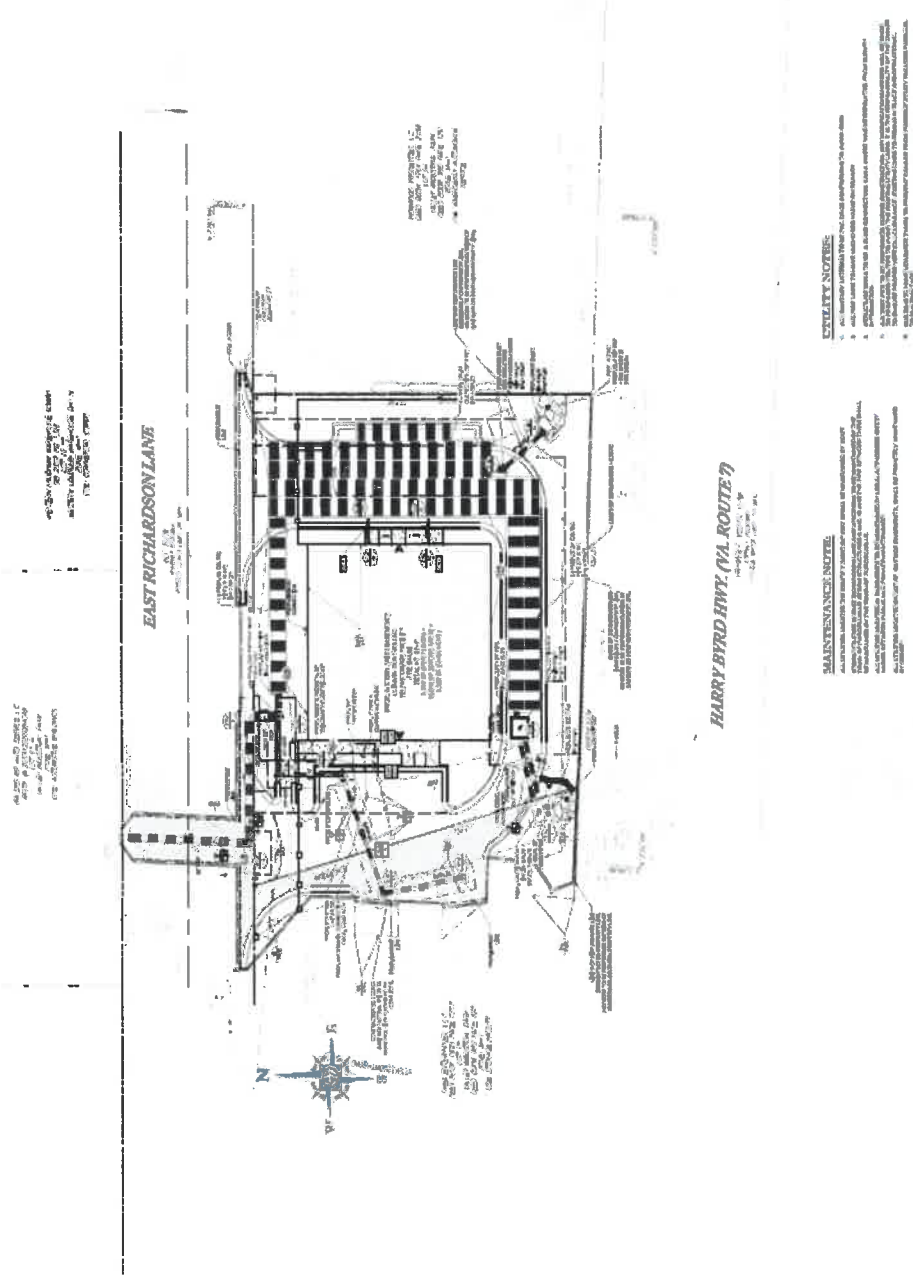
- Underground pond
- 6.60 Total Acres will continue to drain there
- 5.58 Acres Impervious will be accounted for



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Lot 6F Application Overview



Lot 6F Application Overview

- Based on the downstream analysis as seen in the Application, the capacity provided in the downstream pipes is 35cfs allowable for the 50-year storm event.

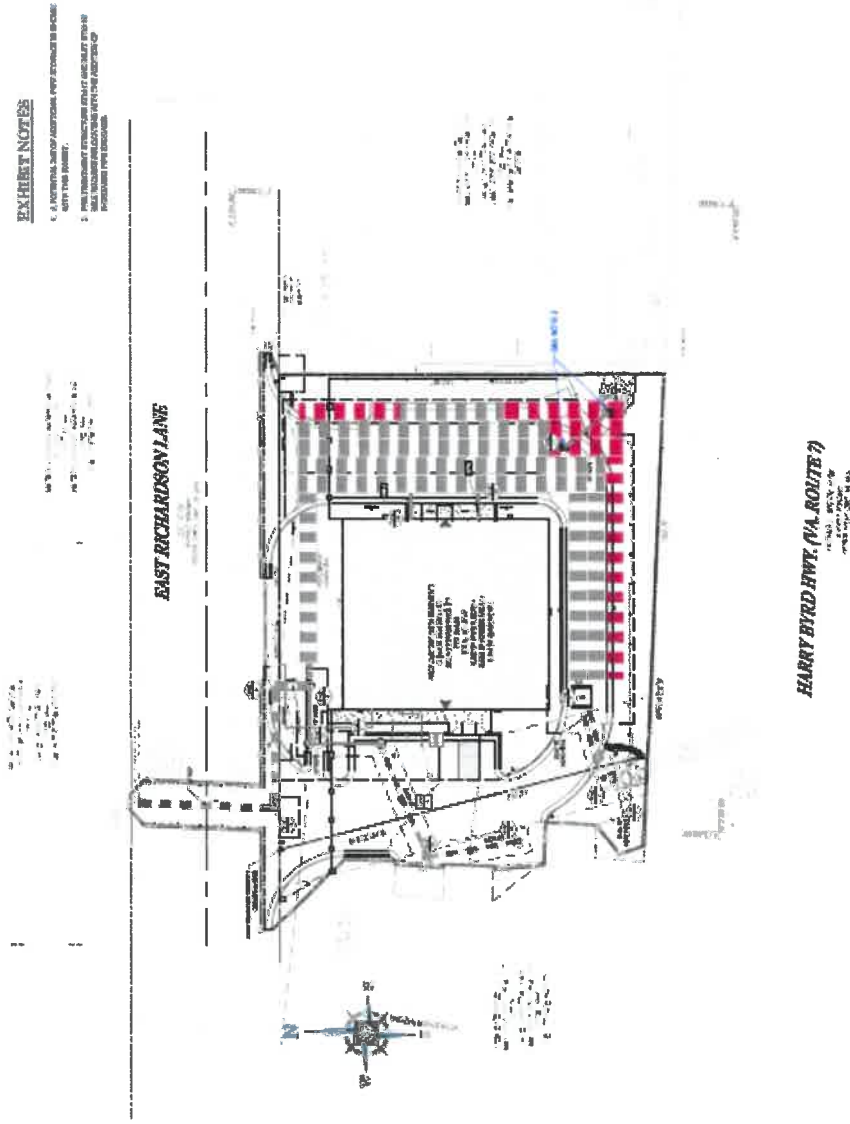
PRE VS. POST ROUTING (QUANTITATIVE) SUMMARY		
2-YEAR	PRE-DEVELOPMENT	POST-DEVELOPMENT
	ELEV = 536.35'	ELEV = 536.19'
	STORAGE = 7,077 CF	STORAGE = 10,759 CF
10-YEAR	DRAWDOWN TIME = 10.25 HR	DRAWDOWN TIME = 12.05 HR
50-YEAR	FLOW RATE = 8.37 CFS	FLOW RATE = 27.10 CFS (SEE NOTE 1)
	FLOW RATE = 17.61 CFS	FLOW RATE = 34.82 CFS (SEE NOTE 1)

NOTES:

1. BASED ON ZICHT ANALYSIS (SHEET 13, NOTE 1.5), 35 CFS ALLOWABLE DISCHARGE.



Lot 6F Application Overview



Lot 6F Application Overview

Potential Additional Storage Capacity

- Potential for an additional 240' of detention system
- Additional 3,637 CF of storage
- Potential total storage area of 14,395 CF
- Double the amount of storage which currently exists



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