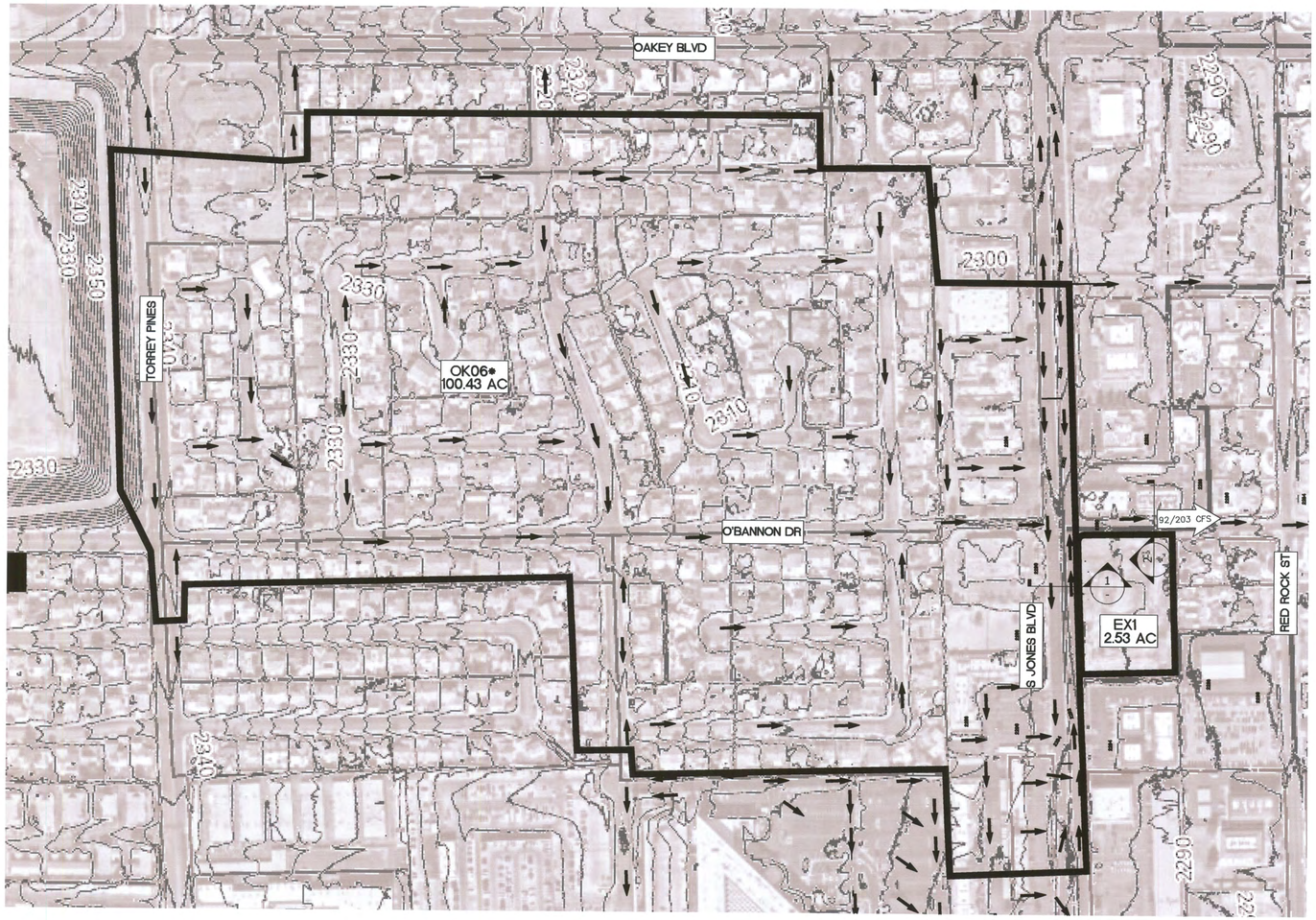
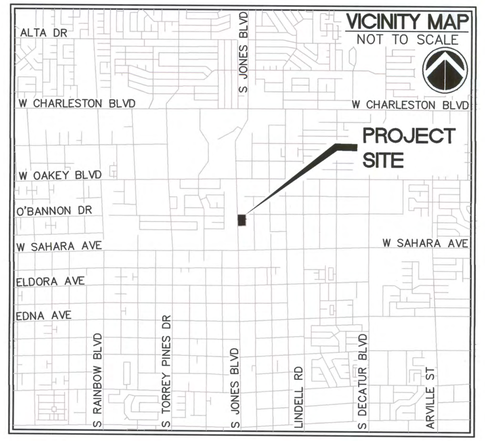




REV	REVISION DESCRIPTION	SHEETS	APP BY	APP DATE

LEGEND

- BASIN BOUNDARY
- OF1 / 25.61 AC — BASIN OR POINT OF INTEREST / ACREAGE
- 1 / - — NORMAL DEPTH LOCATION / NORMAL DEPTH SECTION NUMBER
- 39/125 CFS — SURFACE FLOW MAGNITUDE AND DIRECTION (Q10/Q100) STORM DRAIN IGNORED

* THE CN FOR BASIN OK06 IS REFERENCED FROM THE CITY OF LAS VEGAS CENTRAL NEIGHBORHOOD STUDY. THE BASIN BOUNDARY WAS ADJUSTED BASED ON FIELD INVESTIGATION.

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

Existing Condition Results						
Basin	Acreage	Q_{10}	Q_{100}	Concentration Point	Q_{10}	Q_{100}
OK06	100.43	90	199	CP1	92	203
EX1	2.53	3	6			

Existing Condition Street Flow Calculations

Street Name	Sec #	Slope (%)	R.O.W. Width (ft)	Q_{10} (cfs)	V_{10} (ft/s)	d_{10} (ft)	$V_{10} * d_{10}$	Q_{100} (cfs)	V_{100} (ft/s)	d_{100} (ft)	$V_{100} * d_{100}$	Dry Lane (ft)
Jones Boulevard	1	0.40	100	90	3.63	1.07	3.88	199	4.96	1.38	6.84	0.00
O'Bannon Avenue	2	1.40	60	92	4.97	0.74	3.68	203	6.81	0.93	6.33	N/A

Dry Lane Calculations:	Dry Lane = ((Crown - d_0) / Cross Slope)-(Center Turn Lane / 2)
For 80-foot Right of Way:	Dry Lane = ((0.83 - d_0) / .02) - 7
For 100-foot Right of Way:	Dry Lane = ((1.03 - d_0) / .02) - 7

FIGURE 3
EXISTING CONDITION BASIN MAP

2910 S JONES SELF-STORAGE
CLARK COUNTY, NEVADA

TITLE

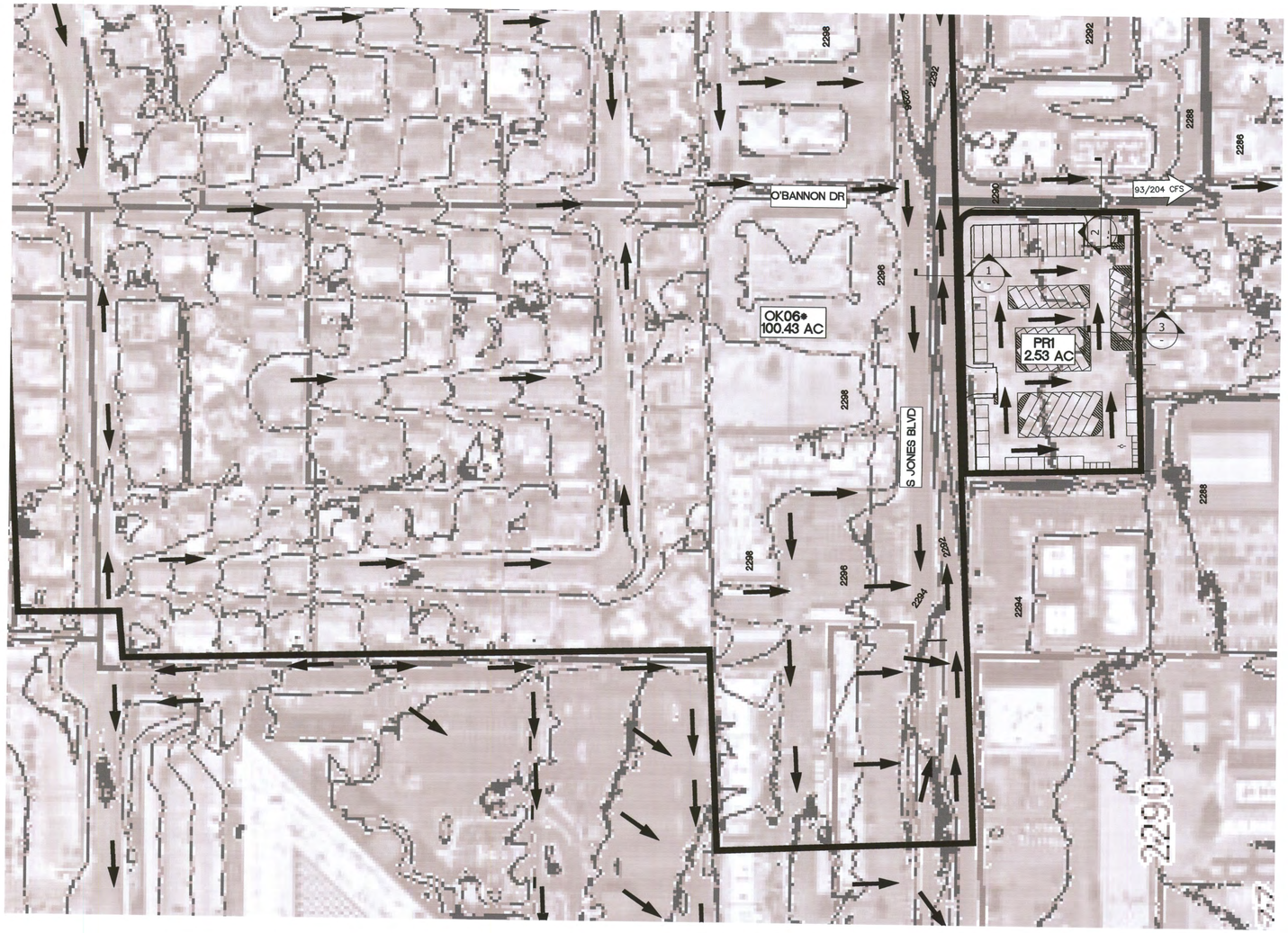
PROJECT

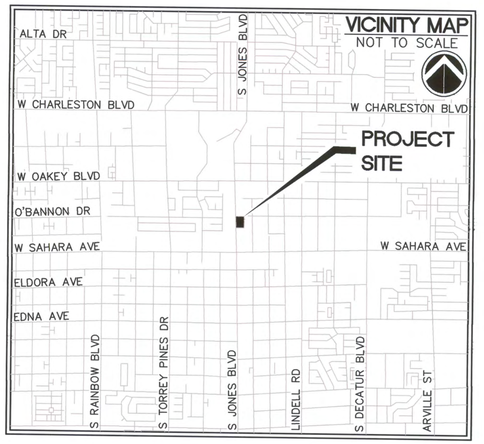
Impulse
Civil Engineering & Planning
$I = \int F \cdot dt$
CIVIL ENGINEERS - PLANNERS
7455 WEST AZURE DRIVE, SUITE 226
LAS VEGAS, NEVADA 89130
PHONE: (702) 815-0720
FAX: (702) 478-8535

W.O. # : CW-2214
BY : PLIV
DATE : 05/18/2022
SCALE : 1"=200'

SHEET 1 OF 1 SHEETS

File: P:\Clients\Civilworks\2910 Jones Self Storage\HYDROLOGY\Location and Vicinity Map 2910 Jones self.dwg Sheet: FIGURE 3 Date: 02-Jun-24 10:58:28am





REV	REVISION DESCRIPTION	SHEETS	APP BY	APP DATE

LEGEND

- BASIN BOUNDARY
- OF1 / 25.61 AC — BASIN OR POINT OF INTEREST / ACREAGE
- 1 / - — NORMAL DEPTH LOCATION / NORMAL DEPTH SECTION NUMBER
- 39/125 CFS — SURFACE FLOW MAGNITUDE AND DIRECTION (Q10/Q100) STORM DRAIN IGNORED

* THE CN FOR BASIN OK06 IS REFERENCED FROM THE CITY OF LAS VEGAS CENTRAL NEIGHBORHOOD STUDY. THE BASIN BOUNDARY WAS ADJUSTED BASED ON FIELD INVESTIGATION. SEE FIGURE 3 FOR THE BASIN BOUNDARY FOR BASIN OK06 USED IN THIS STUDY

Interim/Ultimate Condition Results

Basin	Acreage	Q_{10}	Q_{100}	Concentration Point	Q_{10}	Q_{100}
OK06	100.43	90	199	CP1	93	204
PR1	2.53	4	7			

Interim/Ultimate Condition Street Flow Calculations

Street Name	Sec #	Slope (%)	R.O.W. Width (ft)	Q_{10} (cfs)	V_{10} (ft/s)	d_{10} (ft)	$V_{10} * d_{10}$	Q_{100} (cfs)	V_{100} (ft/s)	d_{100} (ft)	$V_{100} * d_{100}$	Dry Lane (ft)
Jones Boulevard	1	0.40	100	90	3.63	1.07	3.88	199	4.96	1.38	6.84	0.00
O'Bannon Avenue	2	1.40	60	93	4.98	0.72	3.59	204	6.80	0.91	6.19	N/A
Onsite	3	1.00	N/A	4	2.24	0.28	0.63	7	2.57	0.33	0.85	N/A

Dry Lane Calculations:
For 80-foot Right of Way: Dry Lane = ((Crown - d_{10}) / Cross Slope)-(Center Turn Lane / 2)
For 100-foot Right of Way: Dry Lane = ((0.83 - d_{10}) / .02) - 7
Dry Lane = ((1.03 - d_{10}) / .02) - 7

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

TITLE: FIGURE 4 INTERIM/ULTIMATE CONDITION BASIN MAP

PROJECT: 2910 S JONES SELF-STORAGE CLARK COUNTY, NEVADA

Impulse Civil Engineering & Planning
$I = \int F \cdot dt$
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FAX: (702) 478-8535

W.O. # : CW-2214
BY : PLIV
DATE : 05/18/2022
SCALE : 1"=100'
SHEETS 1 OF 1
SHEET 1

File: P:\Clients\Civilworks\2910 Jones Self Storage\HYDROLOGY\Location and Vicinity Map 2910 Jones self.dwg Sheet: FIGURE 4 Date: 02-Jun-24 10:05:40am