

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

January 12, 2023

Minxuan (Jacky) Lin, P.E.
WHPacific, Inc.
6501 Americas Parkway NE, Suite 400
Albuquerque, NM 87110

**RE: Wells Park Expansion
Grading & Drainage Plans
Engineer's Stamp Date: 11/29/22
Hydrology File: J14D026A**

Dear Mr. Lin:

Based upon the information provided in your submittal received 12/02/2022, the Grading and Drainage Plans are approved for Grading Permit, Paving Permit, and for Work Order. Please place this stamp approved Grading & Drainage Plan to the Work Order set of construction drawings.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: WELLS PARK EXPANSION **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: N/A **EPC#:** N/A **Work Order#:** N/A

Legal Description: Municipal Addition No 11/Wells Park Community CTR, Albright & Moore ADDN. & Romero ADDN Subdivision

City Address: 500 MOUNTAIN NW, ALBUQUERQUE, NM 87102

Applicant: WHPacific, Inc - An NV5 Company **Contact:** Minxuan(Jacky) Lin

Address: 6501 America Pkwy NE, Ste 400 Albuquerque, NM 87110

Phone#: 505-348-5221 **Fax#:** _____ **E-mail:** jacky.lin@nv5.com

Owner: City of Albuquerque, Park and Recreation Department **Contact:** Christina Sandoval

Address: 1801 4th Street NW, Albuquerque, NM 87102

Phone#: 505.768.5370 **Fax#:** _____ **E-mail:** _____

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) _____ RESIDENCE _____ DRB SITE ☒ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ DRAINAGE MASTER PLAN
- ☒ DRAINAGE REPORT
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ OTHER (SPECIFY) _____
- ☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☒ PAVING PERMIT APPROVAL
- ☐ GRADING/ PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) _____

DATE SUBMITTED: 12-2-2022 **By:** Minxuan(Jacky) Lin

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

CITY OF ALBUQUERQUE

Parks and Recreation Department



Timothy M. Keller, Mayor

November 23, 2022

City Planning Department

Re: Planning Approvals for Wells Park Expansion

To Planning Review Staff:

Groundworks Studio and their sub-consultant NV5 Engineering are authorized as agents on behalf of the City of Albuquerque Parks and Recreation Department for all required planning submittals regarding the expansion of Wells Park. The project is funded and will be bid this winter. If you have any questions feel free to call me at 768-5370

Sincerely,

Christina Sandoval
CIP Manager, Parks and Recreation Department

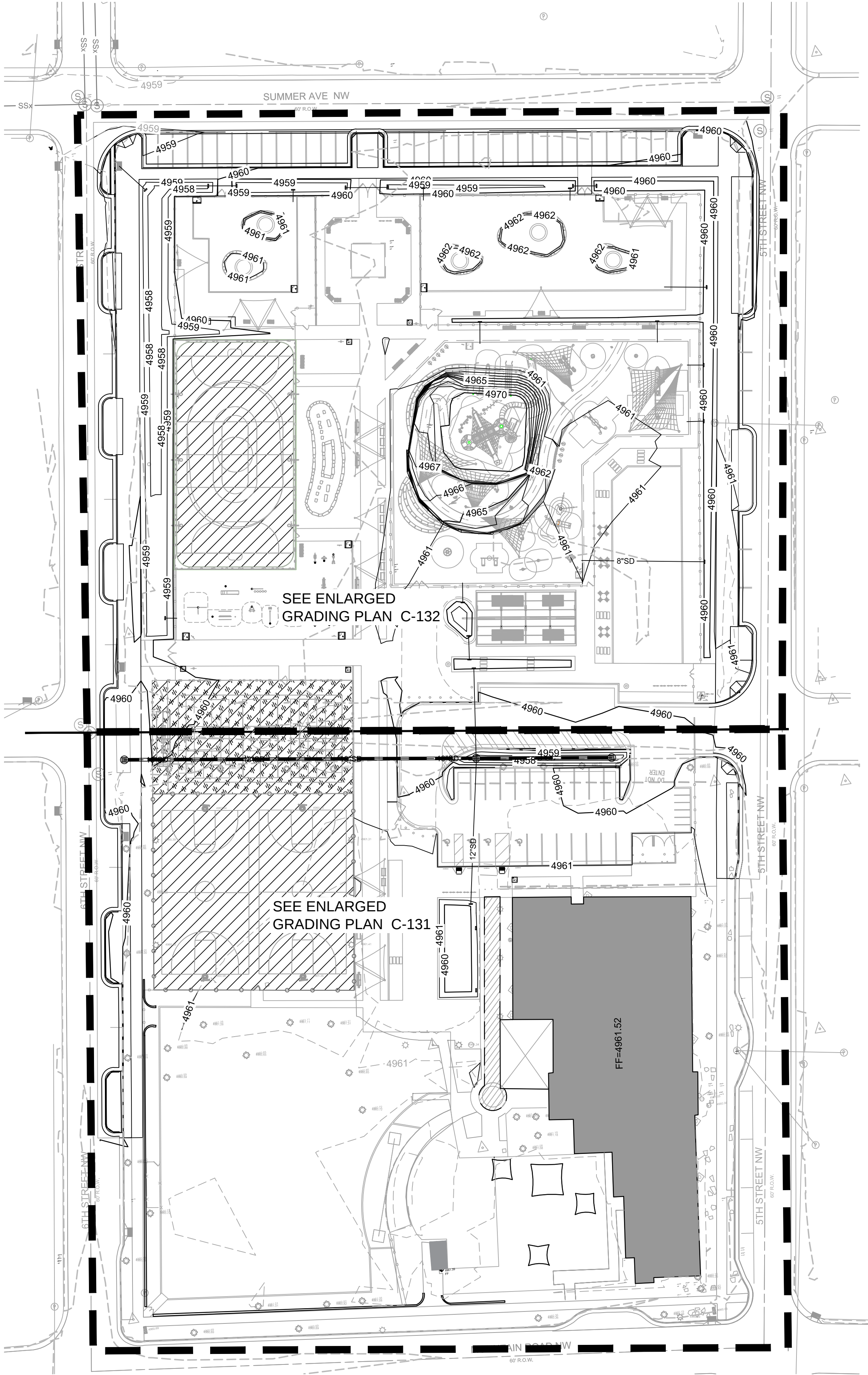
PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

[DATE: 12/2/2022 1:05 PM] [AUTHOR: jockylin] [PLOTTER: \\gfabq01s\PR44454-POL] [STYLE: Grayscale.ctb]
[PATH: P:\Groundwork Studio\229021-A000221-00\Execution\Drawings\Civil\A000221-C-131 GRADING & DRAINAGE PLAN.dwg] [LAYOUT: C-130_OGP]



City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION

APPROVED

DATE: 01/12/23
BY: *Renee C. Brissett*
HydroTrans # J14D026A

THE APPROVAL OF THESE PLANS/DRAWINGS SHALL NOT BE
CONSIDERED TO BE A GUARANTEE OF ANY CITY
ORDINANCE OR PLAT LAW AND SHALL NOT PREVENT
CORRECTION OR MODIFICATION OF THE PLANS/DRAWINGS
SPECIFICATIONS OR CONSTRUCTIONS. SUCH APPROVED PLANS
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION.

GENERAL NOTES:

- ALL NEW CONSTRUCTION SHALL BE INSTALLED PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND STANDARD DETAIL DRAWINGS, LATEST EDITION.
- ALL PROPOSED ELEVATION ARE AT FLOWLINE OF CURB, FINISHED GRADE AT SIDEWALK, BOTTOM & TOP OF POND @ TOP OF FINISHED SURFACE AND TOP OF ASPHALT UNLESS OTHERWISE NOTED.
- ALL SIDE SLOPE OF POND & SWALES SHALL BE 3H: 1V UNLESS OTHER WISE NOTED.

LEGEND:

- 5186

5185

5184

SD

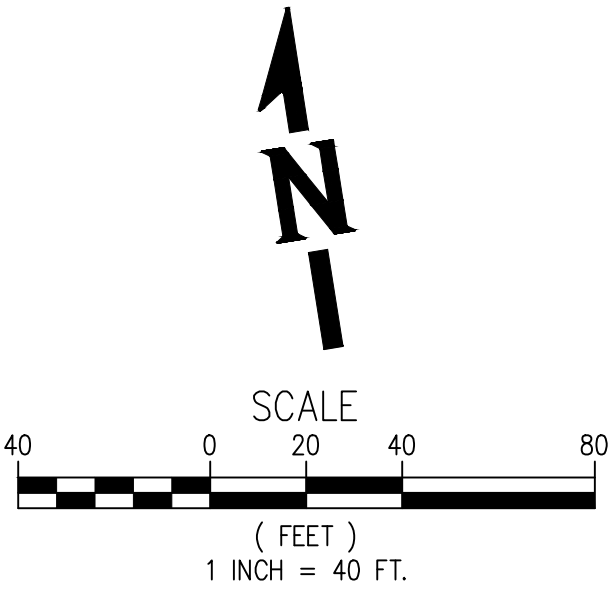
SD
- EXISTING CONTOURS

PROPOSED CONTOURS

PROPOSED STORM DRAIN PIPE

PROPOSED INLETS

FLOW DIRECTION



811

groundworkstudio

MAIL: 6501 Americas Pkwy NE, Ste. 300PHO: 505.212.9126
Albuquerque, NM 87110WEB: groundworkstudio.com

CALL NM ONE-CALL
SYSTEM SEVEN (7) DAYS
PRIOR TO ANY EXCAVATION

NV5
6501 AMERICAS PKWY NE, SUITE 400
ALBUQUERQUE, NM 87110
P: 505.510.0850WWW.NV5.COM

CITY OF ALBUQUERQUE PARKS & RECREATION DEPARTMENT STRATEGIC PLANNING AND DESIGN			
TITLE: WELLS PARK EXPANSION OVERALL GRADING PLAN			
Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
City Project No. 568591	Zone Map No. J-14-Z	Drawing No. C-130	Sheet Of

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES		BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF THE SITE. CONTROL POINT #40008, PK SURVTEK T1808, N 1490749.64, E 15206661.14, Z 4960.59		CONTRACTOR	DATE
NO.	BY	DATE		WORKED BY	DATE
				INSPECTOR'S ACCEPTANCE BY	DATE
				FIELD VERIFICATION BY	DATE
				DRAWINGS CORRECTED BY	DATE
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	



Design Review Committee	City Engineer Approval	Last Design Update	Mo. / Day / Yr.	Mo. / Day / Yr.
City Project No. 568591	Zone Map No. J-14-Z	Drawing No. C-132	Sheet	Of

[illegible]

[DATE: 12/2/2022 1:10 PM] [AUTHOR: jockylin] [PLOTTER: \\gfbq01s\PR44454--PCL] [STYLE: Grayscale.ctb] [LAYOUT: C-133]
[PATH: P:\Groundwork Studio\229021--A00221--Execution\Drawings\Civil\A00221--C-131 GRADING & DRAINAGE PLAN.dwg]

GRADING POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1491067.67	1521071.47	4960.53	FL
2	1491046.84	1521043.26	4960.41	FL
3	1491055.38	1520991.14	4960.05	FL
4	1491065.95	1520992.79	4960.27	FL
5	1491078.89	1520913.86	4960.05	FL
6	1491068.20	1520912.23	4959.94	FL
7	1491072.96	1520880.98	4959.78	FL
8	1491060.40	1520863.89	4959.61	FL
9	1491019.23	1520857.58	4960.03	FL
10	1491001.47	1520874.45	4960.31	FL
11	1490997.28	1520877.51	4960.36	FL
12	1490979.22	1520874.68	4960.55	FL
13	1490963.13	1520984.39	4960.55	FL
14	1490980.87	1520987.46	4960.37	FL
15	1490976.03	1521020.61	4960.37	FL
16	1491000.75	1521024.31	4960.12	FL
17	1491002.07	1521015.42	4960.03	FL
18	1491017.76	1521033.14	4959.74	FL
19	1491016.58	1521040.35	4959.78	FL
20	1490999.46	1521052.75	4959.89	FL
21	1491000.97	1520983.25	4959.80	FL
22	1491000.08	1520985.19	4959.75	FL
23	1491010.81	1520991.69	4959.49	FL
24	1491025.91	1520993.91	4959.33	FL
25	1491028.52	1520994.30	4959.31	FL
26	1491042.04	1520911.72	4959.20	FL
27	1491038.22	1520892.45	4959.00	FL
28	1491027.85	1520884.73	4960.09	FL
29	1491015.45	1520887.84	4960.61	FL
30	1491015.94	1520889.94	4960.74	FL
31	1491032.94	1520892.53	4960.57	FL
32	1490957.70	1520895.47	4961.65	TSW
33	1490961.40	1520871.35	4961.34	TSW
34	1490903.78	1520862.35	4961.34	TSW
35	1490900.03	1520886.55	4961.46	TSW
36	1490907.66	1520834.22	4961.19	TSW
37	1490985.83	1520854.79	4961.33	TSW
38	1490987.12	1520846.40	4961.33	TSW
39	1491077.20	1520860.24	4960.03	TSW
40	1491088.08	1520899.65	4960.58	TSW
41	1491077.77	1520969.81	4960.75	TSW
42	1491085.92	1520971.06	4960.75	TSW
43	1491096.66	1520901.07	4960.41	TSW
44	1491105.39	1520908.96	4960.50	TSW
45	1491106.58	1520915.82	4960.50	TSW
46	1491119.80	1520918.15	4960.50	TSW
47	1491113.68	1520902.53	4960.50	TSW
48	1491127.09	1520981.99	4961.00	TSW

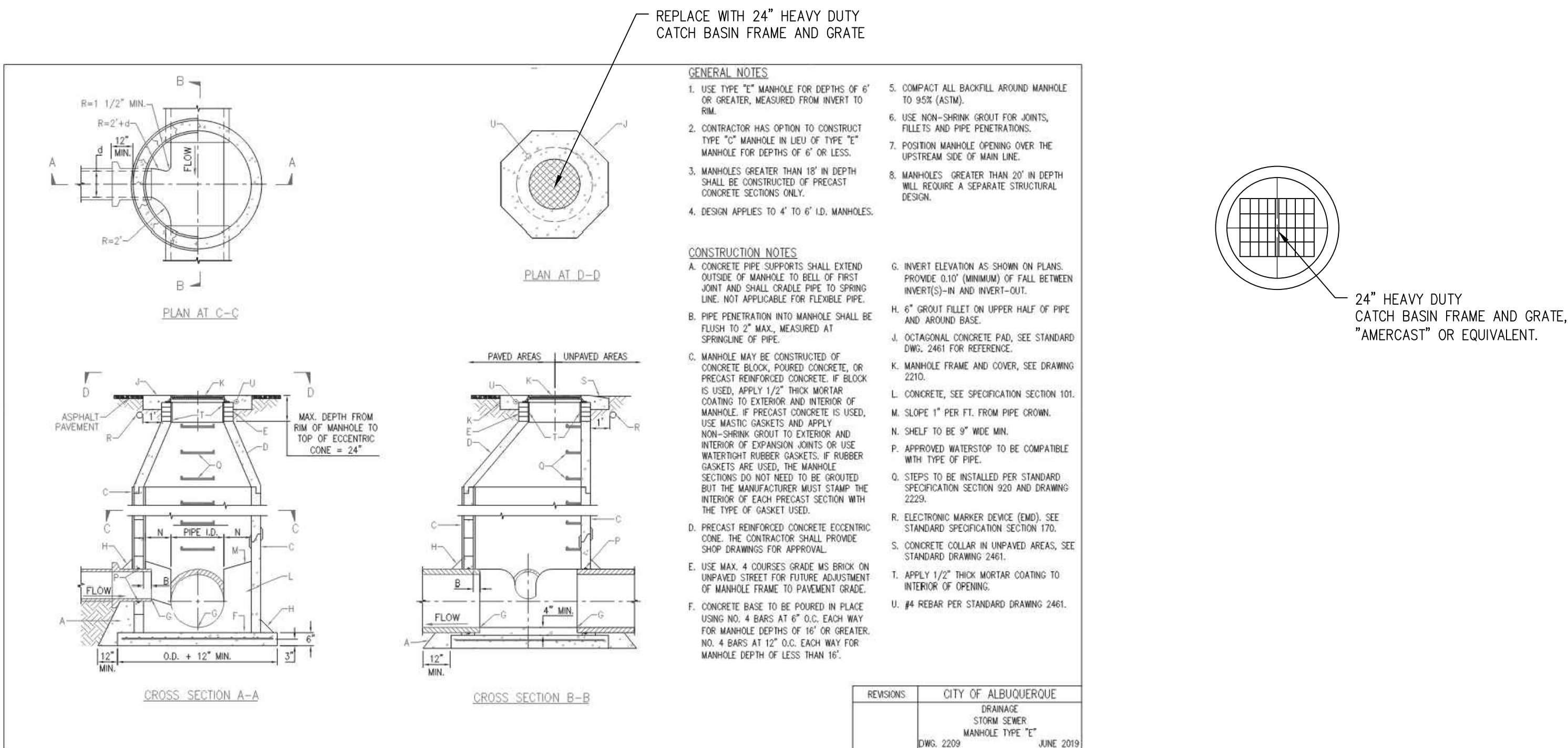
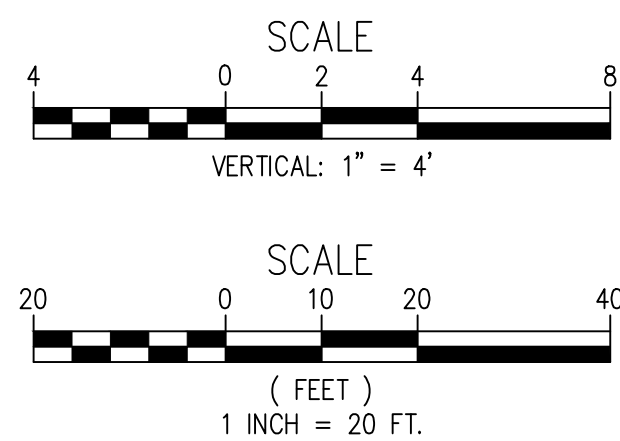
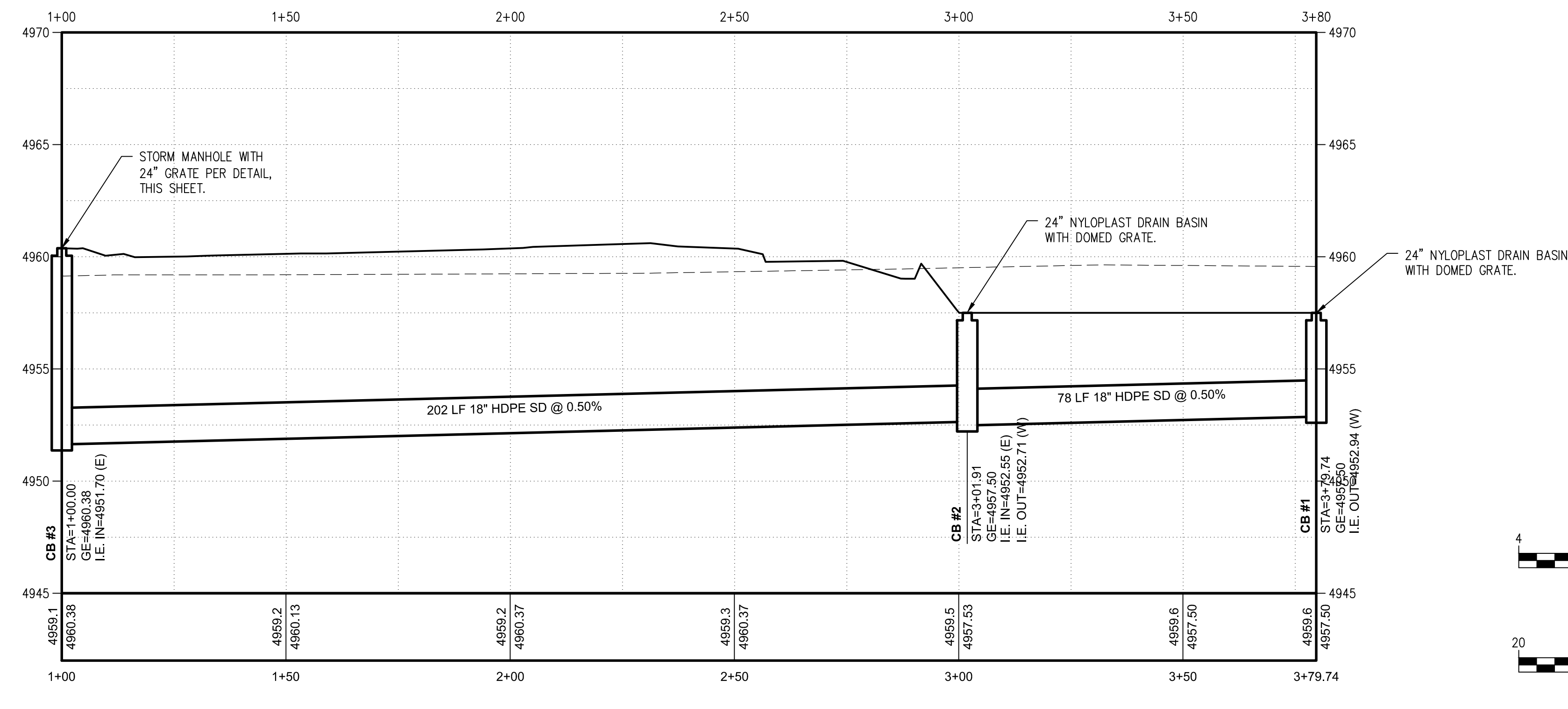
GRADING POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
49	1491137.24	1520913.81	4960.65	TSW
50	1491143.17	1520875.05	4961.13	TSW
51	1491192.52	1520877.95	4960.97	TSW
52	1491199.73	1520879.04	4960.97	TSW
53	1491250.34	1520891.36	4961.02	TSW
54	1491275.44	1520925.57	4960.85	TSW
55	1491254.24	1521063.43	4960.66	TSW
56	1491201.33	1521055.29	4960.80	TSW
57	1491207.63	1521014.08	4961.34	TSW
58	1491193.82	1520991.93	4961.34	TSW
59	1491192.74	1521060.14	4960.79	TSW
60	1491253.19	1521070.04	4960.63	TSW
61	1491263.12	1521071.67	4960.60	TSW
62	1491282.98	1520922.69	4960.82	TSW
63	1491290.89	1520923.90	4960.76	TSW
64	1491296.36	1520914.63	4960.76	TSW
65	1491287.61	1520913.26	4960.82	TSW
66	1491279.09	1520915.00	4960.86	TSW
67	1491282.66	1520891.76	4961.02	TSW
68	1491259.40	1520888.18	4960.97	TSW
69	1491284.86	1520877.45	4960.83	TSW
70	1491265.40	1520874.48	4960.83	TSW
71	1491270.97	1520838.23	4960.66	TSW
72	1491183.32	1520824.45	4960.66	TSW
73	1491176.11	1520823.29	4960.66	TSW
74	1491263.73	1520837.27	4960.66	TSW
75	1491258.19	1520873.35	4960.83	TSW
76	1491177.71	1520861.00	4960.83	TSW
77	1491171.18	1520855.47	4960.81	TSW
78	1491115.48	1520846.90	4960.82	TSW
79	1491130.99	1520745.87	4960.26	TSW
80	1491116.13	1520743.57	4959.99	TSW
81	1491107.03	1520802.18	4960.40	TSW
82	1491098.85	1520800.88	4960.17	TSW
83	1491106.09	1520808.10	4960.44	TSW
84	1491097.96	1520806.84	4960.20	TSW
85	1491100.55	1520844.11	4960.70	TSW
86	1491092.23	1520842.79	4960.38	TOC
87	1491027.98	1520832.96	4960.71	TOC
88	1491045.78	1520719.34	4960.06	TOC
89	1491108.81	1520737.88	4959.85	TOC
90	1491119.16	1520724.06	4959.85	TSW
91	1491133.98	1520726.38	4959.85	TSW
92	1491160.58	1520820.24	4960.66	TOC
93	1491171.35	1520752.09	4960.31	TOC
94	1491300.77	1520772.54	4960.31	TOC
95	1491290.48	1520840.81	4960.66	TOC
96	1491298.39	1520842.03	4960.64	TSW

GRADING POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
97	1491296.57	1520853.95	4960.70	TSW
98	1491292.76	1520878.66	4960.80	TSW
99	1491291.25	1520888.55	4960.85	TSW
100	1491303.56	1520890.44	4960.73	TSW
101	1491301.33	1520904.96	4960.80	TSW
102	1491305.52	1520910.66	4960.87	TSW
103	1491345.24	1520916.06	4960.47	TSW
104	1491350.16	1520912.45	4960.43	TSW
105	1491352.39	1520897.93	4960.58	TSW
106	1491363.95	1520904.76	4960.35	TSW
107	1491374.59	1520901.34	4960.36	TSW
108	1491376.11	1520891.46	4960.31	TSW
109	1491366.98	1520884.99	4960.21	TSW
110	1491353.91	1520888.05	4960.53	TSW
111	1491356.14	1520873.51	4960.31	TSW
112	1491351.96	1520867.81	4960.21	TSW
113	1491313.01	1520861.83	4960.60	TSW
114	1491307.31	1520866.01	4960.60	TSW
115	1491305.08	1520880.55	4960.68	TSW
116	1491370.03	1520865.19	4960.11	TC
117	1491382.22	1520785.42	4960.07	TC
118	1491313.32	1520779.93	4960.25	TC
119	1491298.53	1520841.10	4960.64	TC
120	1491329.29	1520924.82	4960.29	TC
121	1491332.82	1521074.96	4960.81	FG
122	1491350.13	1521101.38	4960.76	FG
123	1491368.07	1520907.70	4958.73	FG
124	1491272.29	1521064.80	4960.60	FG
125	1491201.22	1521071.64	4960.98	FG
126	1491154.59	1521061.01	4960.00	FG
127	1491103.92	1521052.37	4960.00	FG
128	1491073.46	1521043.94	4960.00	FG
129	1491137.49	1520732.99	4958.15	FG
130	1491136.58	1520738.92	4958.15	FG
131	1491383.43	1520770.93	4957.68	FG
132	1491382.43	1520776.85	4957.68	FG
133	1491388.43	1520775.19	4957.85	FG
134	1491372.12	1520882.80	4958.39	FG
135	1490822.89	1520666.74	4959.89	FL
136	1490856.50	1520671.92	4959.76	FL
137	1490857.12	1520667.11	4959.81	FL
138	1490862.83	1520662.86	4959.89	FL
139	1490888.04	1520666.73	4959.80	FL
140	1490892.23	1520672.43	4959.72	FL
141	1490891.49	1520677.25	4959.67	FL
142	1490940.91	1520684.79	4959.46	FL
143	1490941.55	1520680.09	4959.51	FL
144	1490947.26	1520675.81	4959.59	FL

GRADING POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
145	1490978.87	1520680.66	4959.46	FL
146	1490983.06	1520686.34	4959.31	FL
147	1490982.34	1520691.15	4959.21	FL
148	1491031.24	1520698.57	4959.07	FL
149	1491031.93	1520693.85	4959.16	FL
150	1491037.63	1520689.67	4959.31	FL
151	1491105.61	1520700.10	4959.31	FL
152	1491109.93	1520705.04	4959.16	FL
153	1491109.36	1520708.63	4959.09	FL
154	1491158.27	1520716.12	4959.05	FL
155	1491158.65	1520713.38	4959.11	FL
156	1491164.36	1520709.11	4959.29	FL
157	1491187.59	1520712.67	4959.22	FL
158	1491191.77	1520718.37	4959.14	FL
159	1491191.32	1520721.34	4959.10	FL
160	1491240.72	1520728.91	4959.18	FL
161	1491241.12	1520726.02	4959.21	FL
162	1491246.83	1520721.76	4959.29	FL
163	1491270.09	1520725.32	4959.19	FL
164	1491274.28	1520731.02	4959.11	FL
165	1491273.82	1520733.99	4959.08	FL
166	1491323.18	1520741.58	4958.93	FL
167	1491323.59	1520738.67	4959.00	FL
168	1491329.29	1520734.40	4959.11	FL
169	1491352.56	1520737.97	4959.06	FL
170	1491356.74	1520743.67	4958.90	FL
171	1491356.32	1520746.42	4958.84	FL
172	1491388.87	1520751.42	4958.76	FL
173	1491389.31	1520748.35	4958.90	FL
174	1491394.97	1520744.48	4958.97	FL
175	1491400.52	1520745.33	4959.03	FL
176	1491415.45	1520753.48	4958.86	FL
177	1491421.78	1520770.32	4958.86	FL
178	1491418.91	1520772.58	4958.89	FL
179	1491401.61	1520769.92	4959.07	FL
180	1491383.48	1520888.03	4959.55	FL
181	1491399.78	1520890.54	4959.38	FL
182	1491402.23	1520894.24	4959.35	FL
183	1491400.36	1520906.82	4959.40	FL
184	1491396.94	1520909.33	4959.45	FL
185	1491380.59	1520906.82	4959.61	FL
186	1491354.83	1521075.37	4960.12	FL
187	1491369.76	1521077.65	4959.82	FL
188	1491373.14	1521088.66	4959.64	FL
189	1491343.62	1521115.34	4959.79	FL
190	1491268.54	1521103.41	4959.94	FL
191	1491264.43	1521097.65	4960.00	FL
192	1491264.91	1521094.76	4960.00	FL

GRADING POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
193	1491200.18	1521084.56	4960.13	FL
194	1491199.70	1521087.37	4960.14	FL

STORM PROFILE



STORM GRATE INLET DETAIL (COA DWG 2209 MODIFIED)
SCALE: N.T.S.

1
C-134

811 *groundworkstudio*

MAIL: 6501 Americas Pkwy NE, Ste. 300PH: 505.212.9126
Albuquerque, NM 87110 WEB: groundworkstudio.com

N | V | S

**CALL NM ONE-CALL
SYSTEM SEVEN (7) DAYS
PRIOR TO ANY EXCAVATION**

6501 AMERICAS PKWY NE, SUITE 410
ALBUQUERQUE, NM 87110
P: 505.510.0850 WWW.NV.S.COM

CITY OF ALBUQUERQUE
PARKS & RECREATION DEPARTMENT
STRATEGIC PLANNING AND DESIGN

TITLE:	WELLS PARK EXPANSION STORM PROFILE
--------	---------------------------------------

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
City Project No. 568591	Zone Map No. J-14-Z	Drawing No. C-134	Sheet	Of

ENGINEERS' SEAL	SURVEY INFORMATION		BENCH MARKS	AS BUILT INFORMATION
	NO.	FIELD NOTES		
		BY _____	BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF THE SITE, CONTROL POINT #40008, PK SURVEY 11808, N 1490749.64, E 15206661.14, Z 4960.59	CONTRACTOR _____
				WORKED BY _____ DATE _____
				SUPERVISOR'S ACCEPTANCE BY _____ DATE _____
				FIELD VERIFICATION BY _____ DATE _____
				DRAWINGS CORRECTED BY _____ DATE _____
				MICRO-FILM INFORMATION
				RECORDED BY _____ DATE _____
				NO. _____



[DATE: 1/11/2023 3:06 PM] [AUTHOR: jockylin] [PLOTTER: \\vgabq01s\PR44454--PCL] [STYLE: Grayscale.ctb]
[PATH: P:\Groundwork Studio\229021-A00221\00\Execution\Drawings\Civil\A00221-C-141 DRAINAGE PLAN.dwg]

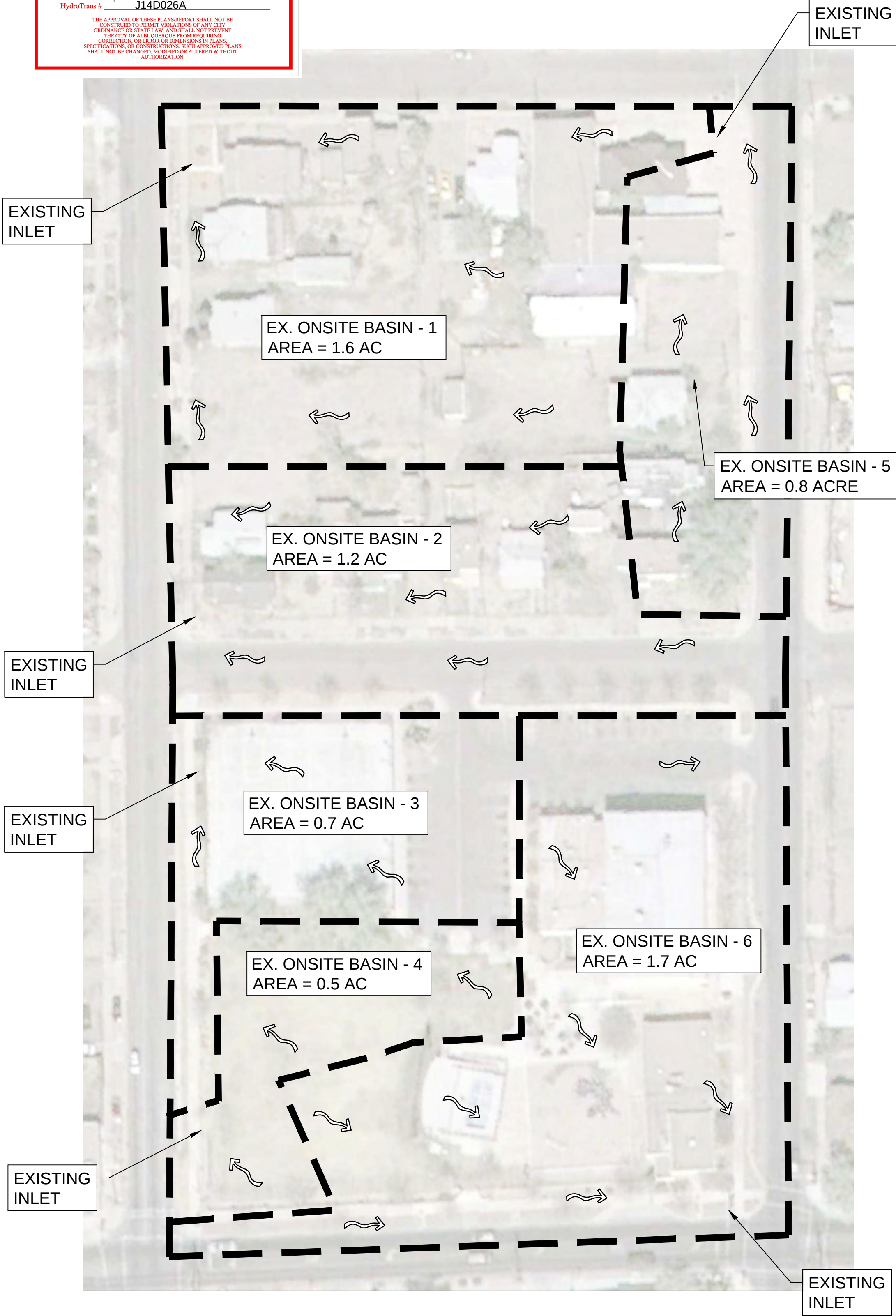
[LAYOUT: C-141 Drainage Plan]

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION

APPROVED

DATE: 01/12/23
BY: *Renee C. Brissett*
HydroTrans #: J14D026A

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE
CONSTRUED TO PREVENT VIOLATIONS OF ANY CITY
ORDINANCE OR STATE OR FEDERAL LAW. THE CITY OF ALBUQUERQUE SHALL NOT PREVENT
CONSTRUCTION OR DESIGN OR CONSTRUCTION PLANS,
SPECIFICATIONS OR CONSTRUCTIONS. SUCH APPROVED PLANS
SHALL NOT BE REDESIGNED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION.



100-YEAR & 90th PERCENTILE STORM EVENTS HYDROLOGIC CALCULATIONS

BASIN	AREA (ACRES)	LAND TREATMENT				100-YR				90th Percentile Storm Events	
		A (%)	B (%)	C (%)	D (%)	UNIT PEAK DISCHARGE (CFS/AC)	WEIGHTED E (IN)	PEAK DISCHARGE (CFS)	VOLUME 6 HOUR (AC-FT)	90th Percentile Storm (IN)	Stormwater Quality Volume (AC-FT)
EXISTING CONDITIONS											
EX 1	1.60	0.0	0.0	54.0	46.0	3.643	1.628	5.829	0.217		N/A
EX 2	1.20	0.0	0.0	60.0	40.0	3.566	1.550	4.279	0.155		N/A
EX 3	0.70	0.0	0.0	23.0	77.0	4.043	2.031	2.830	0.118		
EX 4	0.50	0.0	72.0	0.0	28.0	2.914	1.228	1.457	0.051		
EX 5	0.80	0.0	0.0	51.0	49.0	3.682	1.667	2.946	0.111		
EX 6	1.70	0.0	29.0	0.0	71.0	3.766	1.886	6.402	0.267		
TOTALS	6.50							23.74	0.92		
PROPOSED CONDITIONS											
PRO. 1	1.30	0.0	0.0	34.0	66.0	3.901	1.888	5.072	0.205	0.42	0.030
PRO. 2	0.70	0.0	0.0	20.0	80.0	4.082	2.070	2.857	0.121	0.42	0.020
PRO. 3	1.50	0.0	6.0	3.0	91.0	4.183	2.199	6.274	0.275	0.42	0.048
PRO. 4	0.70	0.0	71.5	0.0	28.5	2.924	1.236	2.047	0.072	0.42	0.007
PRO. 5	0.9	0.0	6.0	44.0	50.0	3.654	1.666	3.288	0.125	0.42	0.016
PRO. 6	1.4	0.0	1.0	13.0	86.0	4.153	2.146	5.814	0.250	0.42	0.042
TOTALS	6.50							19.54	0.80		0.162
PROPOSED VS. EXISTING DIFFERENCE (OVERALL)								-4.21	-0.12		0.162

REFERENCE:
ARTICLE 6-2, HYDROLOGY, DEVELOPMENT PROCESS MANUAL, CITY OF ALBUQUERQUE, EFFECTIVE AS OF JUNE 8, 2020
ARTICLE 6-12 STORMWATER QUALITY, DRAINAGE ORDINANCE DEFINES THE 90th PERCENTILE STORM EVENT AS 0.42 INCHES.
PRECIPITATION ZONES = ZONE 2

DETENTION POND #1					
ELEVATION	AREA (FT²)	STORAGE (FT³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)
4960.0	759	0	0.00	0	0.00
4961	1198	979	0.022	979	0.022
4961.5	1430	657	0.015	1636	0.038
TOTAL STORAGE				1636	0.038

DETENTION POND #2					
ELEVATION	AREA (FT²)	STORAGE (FT³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)
4957.5	105	0	0.00	0	0.00
4958	245	88	0.002	88	0.002
4959.0	553	399	0.009	487	0.011
TOTAL STORAGE				487	0.011

DETENTION POND #3					
ELEVATION	AREA (FT²)	STORAGE (FT³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)
4959.5	160	0	0.00	0	0.00
4960	334	124	0.003	124	0.003
4960.5	600	234	0.005	357	0.008
TOTAL STORAGE				357	0.008

DETENTION POND #4					
ELEVATION	AREA (FT²)	STORAGE (FT³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)
4959.0	480	0	0.00	0	0.00
4960.0	2052	1266	0.029	1266	0.029
4961.0	4417	3235	0.07	4501	0.103
TOTAL STORAGE				4501	0.103

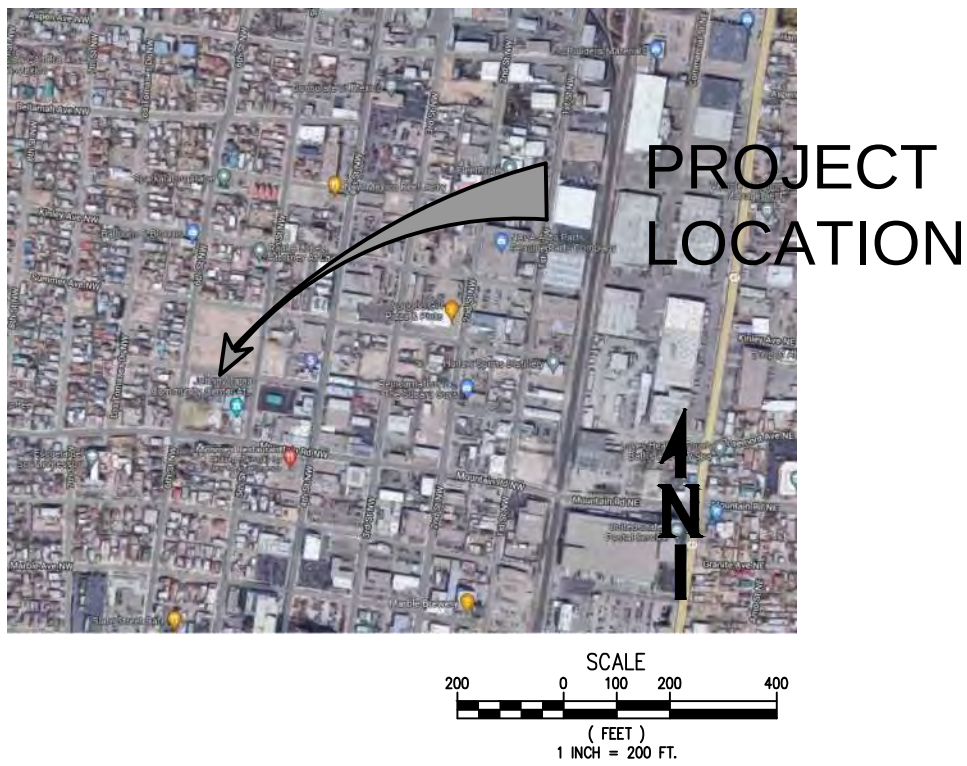
DETENTION POND #5					
ELEVATION	AREA (FT²)	STORAGE (FT³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)
4959.5	106	0	0.00	0	0.00
4960.0	810	229	0.005	229	0.005
4960.5	1152	491	0.01	720	0.017
TOTAL STORAGE				720	0.017

DETENTION POND #6					
ELEVATION	AREA (FT²)	STORAGE (FT³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)
4958.0	120	0	0.00	0	0.00
4959.0	343	232	0.005	232	0.005
4960.5	664	755	0.02	987	0.023
TOTAL STORAGE				987	0.023

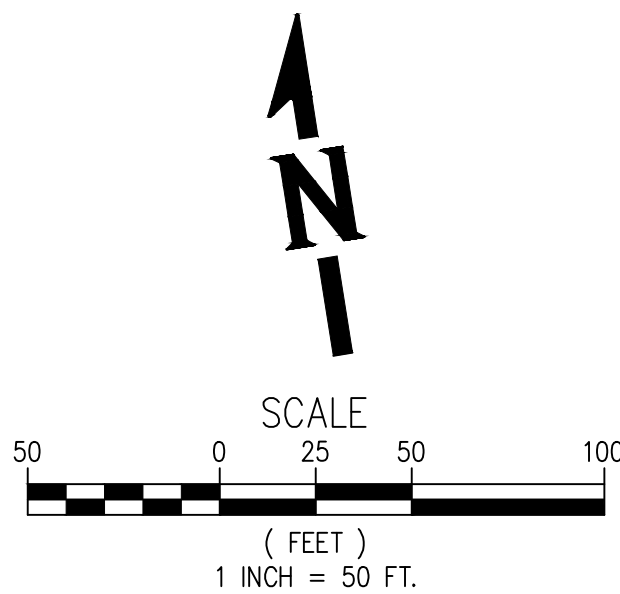
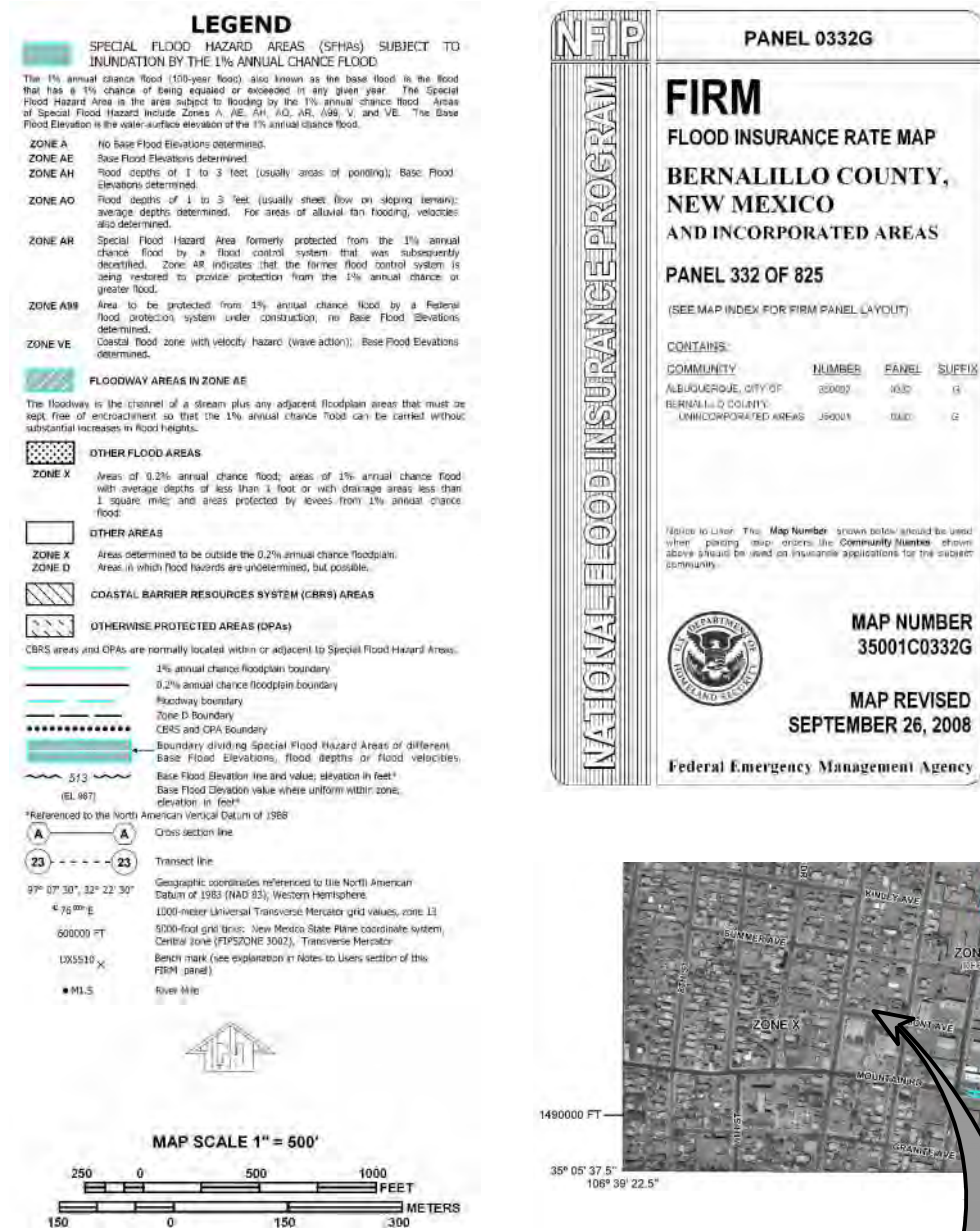
DETENTION POND #7					
ELEVATION	AREA (FT²)	STORAGE (FT³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)
4958.0	1790	0	0.00	0	0.00
4959.0	3720	2755	0.063	2755	0.063
4960.0	5736	4728	0.11	7483	0.172
TOTAL STORAGE				7483	0.172

TOTAL POND STORAGE VOLUME(AC-FT) = 0.371

VICINITY MAP



FEMA FIRM MAP - MAP NUMBER 35001C0332G



811

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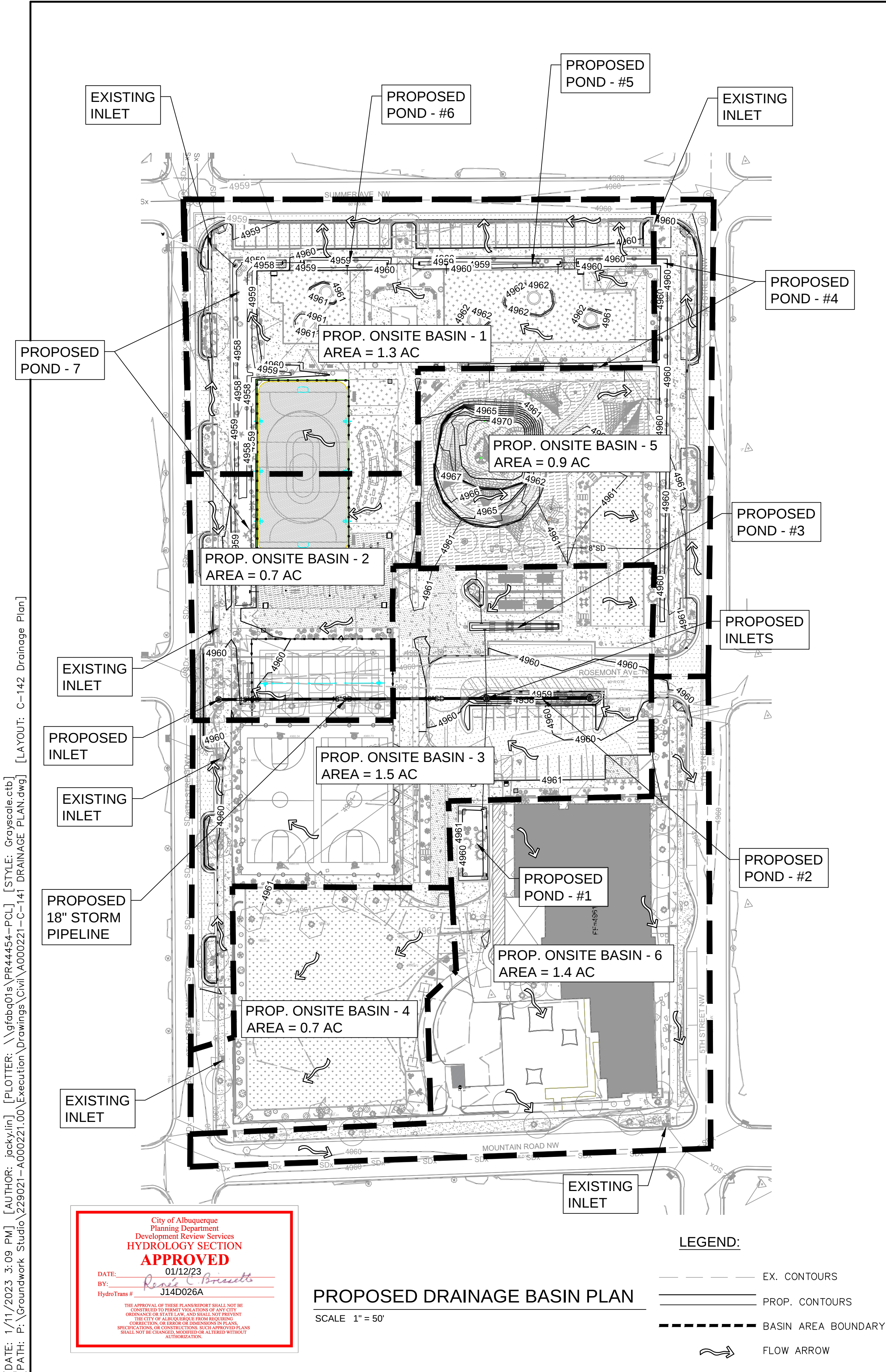
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CITY OF ALBUQUERQUE
PARKS & RECREATION DEPARTMENT
STRATEGIC PLANNING AND DESIGN

TITLE: WELLS PARK EXPANSION	
DRAINAGE PLAN	
Design Review Committee	City Engineer Approval
City Project No. 568591	Zone Map No. J-14-Z
Drawing No. C-141	Sheet Of

[DATE: 1/11/2023 3:09 PM] [AUTHOR: jockylin] [PLOTTER: \\gfabq01s\PR44454-PCL] [STYLE: Grayscale.ctb] [LAYOUT: C-142 Drainage Plan] [PATH: P:\Groundwork Studio\229021-A00221\00\Execution\Drawings\Civil\A00221-C-141 DRAINAGE PLAN.dwg]



LEGAL DESCRIPTION
MUNICIPAL ADDITION NO 11/WELLS PARK COMMUNITY CTR, ALBRIGHT & MOORE ADDN. SUBDIVISION & ROMERO ADDN SUBDIVISION.

DRAINAGE BASIN AREA
6.5 ACRE; 281,673.36SF

FLOOD ZONE DESIGNATION
NO PORTION OF THIS SITE LIES WITH A FLOOD PLAIN AS DESIGNATED ON PANEL 332 OF 825 OF THE FEMA FLOOD INSURANCE RATE MAP, MAP NUMBER 35001C0332G DATED SEPTEMBER 26, 2008.

DRAINAGE CRITERIA
CALCULATIONS FOR EXISTING PEAK DISCHARGE AND VOLUMETRIC RUNOFF WERE PERFORMED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL CHAPTER 6, SECTION 2.

HYDROLOGIC STUDY

EXISTING CONDITIONS
THE SITE IS COMPOSED OF TWO PARCELS IN BETWEEN 6TH AND 5TH STREET. THE NORTH PARCEL IS FOUND SOUTH OF SUMMER AVENUE AND NORTH OF ROSEMONT AVENUE. PREVIOUSLY WAS A RESIDENTIAL AREA (SUBDIVISION). SINCE THE SUBDIVISION WAS DEMOLISHED AND CURRENTLY IS A VACANT LOT WITH MINOR VEGETATIONS. THE SOUTH PARCEL IS FOUND NORTH OF MOUNTAIN AVENUE AND SOUTH OF ROSEMONT AVENUE. IT CONTAINS TWO BASKETBALL COURTS WEST OF THE JOHNNY TAPIA COMMUNITY CENTER. SOUTH OF THE COURTS THERE IS AN OPEN SPACE WITH A LAWN SOFTBALL FIELD.

SITE DRAINAGE
ON THE NORTH PARCEL GOES INTO THREE INLETS; ON THE EAST OF THE PARCEL, THE FLOW DRAINS NORTH TOWARDS THE INLET ON 5TH STREET AND SUMMER AVENUE. THE INLET AT 6TH STREET AND SUMMER AVENUE COLLECTS THE DRAINAGE FLOW THAT COME FROM THE EAST OF THE SITE. THE INLET AT 6TH STREET NORTH OF ROSEMONT AVENUE COLLECTS THE FLOW FROM THE EAST OF THE PARCEL AND FROM ROSEMONT AVENUE. THE OTHER THREE INLETS MIRROR THE FIRST THREE ON THE SOUTH PARCEL. THE INLET AT 6TH STREET SOUTH OF ROSEMONT AVENUE COLLECTS THE FLOW FROM THE BASKETBALL COURTS FLOWING FROM THE SOUTH EAST. THE INLET ON 6TH AVENUE CLOSER TO MOUNTAIN AVENUE COLLECTS MOST OF THE DRAIN FROM THE OPEN SPACE (GOLF COURSE) AREA. THE LAST INLET IS FOUND ON THE CORNER OF 5TH STREET AND MOUNTAIN AVENUE AND IT COLLECTS THE DRAIN FLOW FROM THE NORTH WEST, WHICH COVERS THE COMMUNITY CENTER AND ALL OF ITS COMPONENTS.

PROPOSED CONDITIONS
THE PROPOSED SITE IMPROVEMENTS FOR THE SITE WILL CONSIST OF (1) NEW MULTI-PROPOSE COURTS, (1) NEW HOCKEY COURT, AN UPDATED PARKING LOT, NEW PLAY GROUND AREA, (2) NEW DOG PARKS, EXERCISE EQUIPMENT AREA & ADDITIONAL OFFSITE PARKING AREA.

THE PROPOSED DRAINAGE WILL BE DIVIDED INTO 6 BASINS, WITH ONSITE BASINS ONLY, SEE PROPOSED DRAINAGE PLAN FOR BASINS. THE DETENTION PONDS WILL INTERCEPT THE 90 PERCENTILE RUNOFF & TO RETAIN THE DIFFERENCE OF THE HISTORIC RUNOFF FROM PRE-DEVELOPMENT TO POST-DEVELOPMENT.

BASIN 1 WILL CONSIST OF HALF OF THE PROPOSED COURT, PROPOSED ADDITIONAL ASPHALT PARKING SPACES PROPOSED DOG PARK (TWO AREAS), AND PARTS OF TWO PROPOSED DETENTION PONDS. THE DRAINAGE FLOW WILL BE COLLECTED AT POND #4, SOME AT POND #5 AND SOME AT POND #6. THERE IS AN UNDERGROUND PIPE LOCATED BETWEEN PONDS. POND #4 WATER TRAVELS INTO POND #6 THROUGH THIS PIPE. FINALLY POND #6 DRAINS THROUGH AN UNDERGROUND PIPE INTO AN EXISTING INLET ON 6TH STREET AND SUMMER AVENUE.

BASIN 2 RUNOFF WILL BE SURFACE FLOW TRAVELING TO THE EXISTING DRAIN INLET LOCATED ON 6TH STREET NORTH OF WHAT IT USED TO BE ROSEMONT AVENUE, SOME OF THE FLOW MIGHT BE COLLECTED BY POND #7 CONSIDERING IS RIGHT ACROSS THIS INLET.

BASIN 3 WILL CONSIST OF IMPROVED PARKING LOT, OPEN SPACE GREEN AREAS AND EXISTING BASKETBALL COURT, RUNOFF WILL SURFACE FLOW TO POND #3, POND #2 WHICH COUNTS WITH 2 PROPOSED INLETS AND THE REST OF THE RUNOFF WILL FLOW TO THE EXISTING DRAIN INLET LOCATED ON 6TH STREET AND SOUTH OF WHAT USED TO BE ROSEMONT AVENUE.

BASIN 4 WILL CONSIST SOLELY OF THE EXISTING LAWN AREA. ALL RUNOFF WILL SURFACE FLOW TOWARDS EXISTING INLET LOCATED ON 6TH STREET AND MOUNTAIN AVENUE.

BASIN 5 WILL CONSIST OF PROPOSED DETENTION POND #4, SOME OF THE CURB AND GUTTER ON 5TH ST AND AN ENGINEERED WOOD FIBER AREA. THE RUNOFF WILL FLOW INTO POND #4 AND EXISTING INLET LOCATED AT THE CORNER OF 5TH STREET AND SUMMER AVENUE.

BASIN 6 WILL CONSIST OF THE EXISTING COMMUNITY CENTER, CURB AND GUTTER AND AN EXISTING OUTDOOR PAVED AREA. THE RUNOFF WILL FLOW INTO POND #1 AND EXISTING INLET LOCATED AT THE CORNER OF 5TH STREET AND MOUNTAIN AVENUE.

DRAINAGE SUMMARY
EXISTING DISCHARGE TO STORM INLET @ 6TH ST. & SUMMER AVENUE:
EX. BASIN 1, DISCHARGE = 5.83 CFS, VOLUME 0.22 AC-FT.

PROPOSED DISCHARGE TO STORM INLET @ 6TH ST. & SUMMER AVENUE AND TO PONDS #5 & #6:
PROP. BASIN 1, DISCHARGE = 5.07 CFS, VOLUME 0.21 AC-FT.

NET DISCHARGE TO STORM INLET = -0.76 CFS, VOLUME = -0.01 AC-FT

EXISTING DISCHARGE TO STORM INLET @ 6TH ST. & ROSEMONT (N):
EX. BASIN 2, DISCHARGE = 4.28 CFS, VOLUME 0.16 AC-FT.

PROPOSED DISCHARGE TO STORM INLET @ 6TH ST. & ROSEMONT (N) AND TO POND #6:
PROP. BASIN 2, DISCHARGE = 2.86 CFS, VOLUME 0.12 AC-FT.

NET DISCHARGE TO STORM INLET = -1.42 CFS, VOLUME = -0.04 AC-FT

EXISTING DISCHARGE TO STORM INLET @ 6TH ST. & ROSEMONT (S):
EX. BASIN 3, DISCHARGE = 2.83 CFS, VOLUME 0.12 AC-FT.

PROPOSED DISCHARGE TO STORM INLET @ 6TH ST. & ROSEMONT (S) AND TO PONDS #2 & #3:
PROP. BASIN 3, DISCHARGE = 6.27 CFS, VOLUME 0.27 AC-FT.

NET DISCHARGE TO STORM INLET = 3.44 CFS, VOLUME = 0.15 AC-FT

EXISTING DISCHARGE TO STORM INLET @ 6TH ST. & MOUNTAIN:
EX. BASIN 4, DISCHARGE = 1.46 CFS, VOLUME 0.05 AC-FT.

PROPOSED DISCHARGE TO STORM INLET @ 6TH ST. & MOUNTAIN:
PROP. BASIN 4, DISCHARGE = 2.05 CFS, VOLUME 0.07 AC-FT.

NET DISCHARGE TO STORM INLET = 0.59 CFS, VOLUME = 0.02 AC-FT

EXISTING DISCHARGE TO STORM INLET @ 5TH ST. & SUMMER:
EX. BASIN 5, DISCHARGE = 2.95 CFS, VOLUME 0.11 AC-FT.

PROPOSED DISCHARGE TO STORM INLET @ 5TH ST. & SUMMER AND TO POND #4:
PROP. BASIN 5, DISCHARGE = 3.29 CFS, VOLUME 0.12 AC-FT.

NET DISCHARGE TO STORM INLET = 0.34 CFS, VOLUME = 0.01 AC-FT

EXISTING DISCHARGE TO STORM INLET @ 5TH ST. & MOUNTAIN:
EX. BASIN 6, DISCHARGE = 6.40 CFS, VOLUME 0.27 AC-FT.

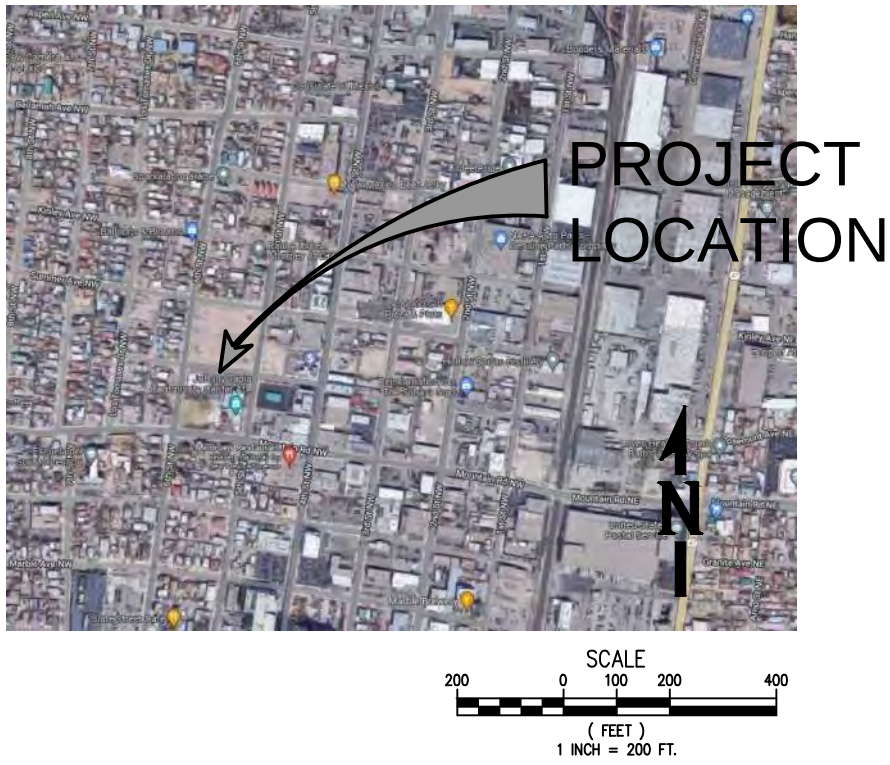
PROPOSED DISCHARGE TO STORM INLET @ 5TH ST. & MOUNTAIN AND TO POND #1:
PROP. BASIN 6, DISCHARGE = 5.81CFS, VOLUME 0.25 AC-FT.

NET DISCHARGE TO STORM INLET = -0.59 CFS, VOLUME = -0.02 AC-FT

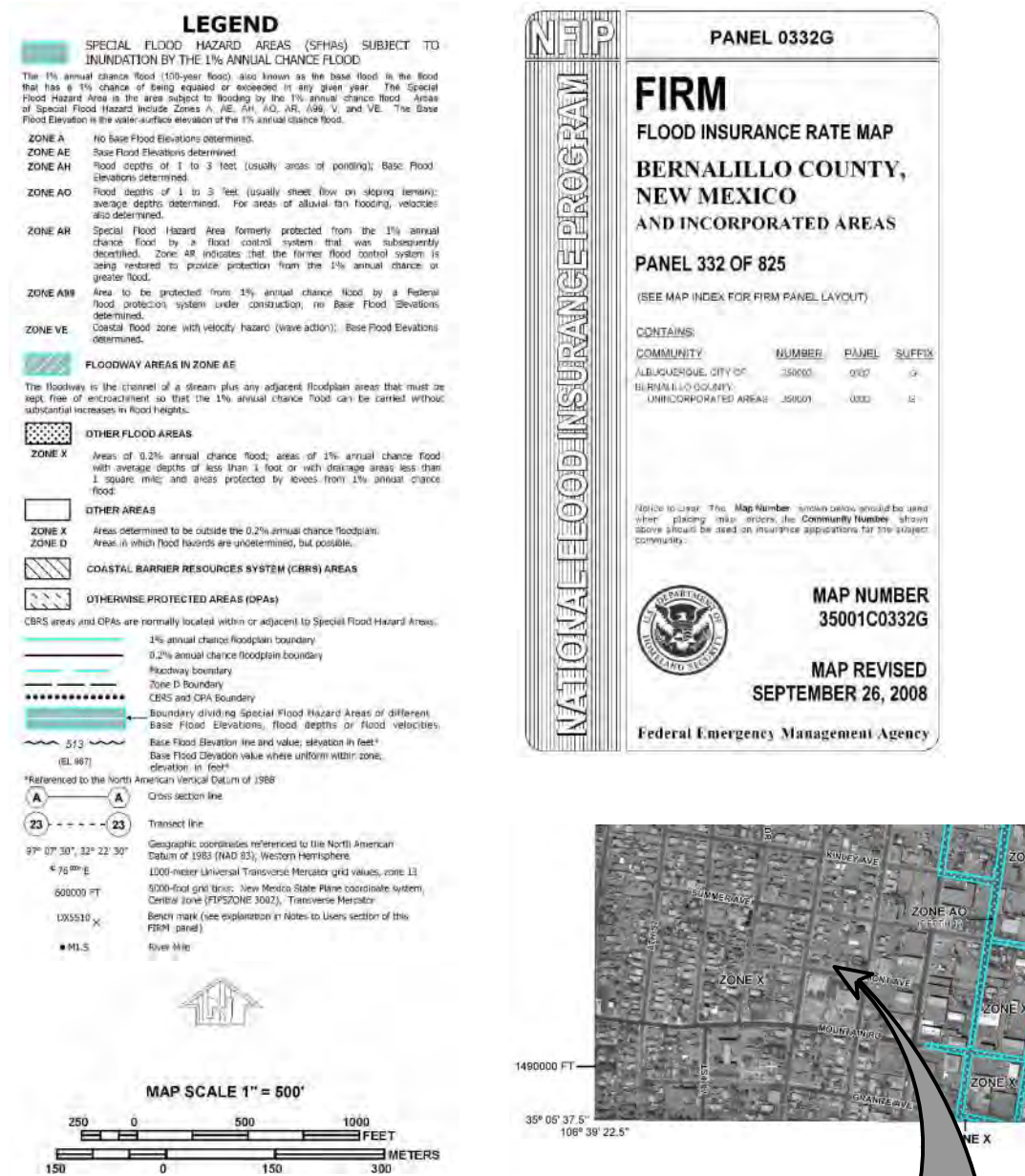
HYDROLOGIC STUDY CONCLUSION
THE EXISTING RUNOFF DISCHARGE IS 23.74 CFS & VOLUME FROM THE SITE IS 0.92 AC-FT FOR THE 100-YR, 6HR EVENT. THE PROPOSED RUNOFF FROM THE SITE IS 19.54 CFS AND VOLUME IS 0.80 AC-FT. THIS RESULTS IN A NET REDUCTION OF 4.21 CFS & 0.12 AC-FT FROM EXISTING TO PROPOSED CONDITIONS. THE PROPOSED DEVELOPMENTS HAVE NO IMPACT ON THE DOWNSTREAM AREAS SINCE THE RUNOFF AND DISCHARGE ARE LESS FROM THE PRE-DEVELOPED TO DEVELOPED CONDITION GOING INTO THE EXISTING STORM DRAIN SYSTEM IN THE STREET. RUNOFF GENERATED FROM NEW PAVED AREA FOR THE 90TH PERCENTILE STORM EVENT IS 0.162 AC-FT, POND VOLUME PROVIDED ON PROJECT SITE IS 0.371 AC-FT. THEREFORE, ONSITE PONDING IS ADEQUATE TO MANAGE THE FIRST FLUSH STORM EVENT.

THE DETENTION PONDS HAVE BEEN DEVELOPED ON SITE FOR TWO REASONS:
1) TO MITIGATE STORM WATER RUNOFF FROM EXISTING TO PROPOSED CONDITIONS
2) TO MANGE 90TH PERCENTILE STORM EVENT FIRST FLUSH GENERATED BY CONTRIBUTING IMPERVIOUS SURFACES.

VICINITY MAP



FEMA FIRM MAP - MAP NUMBER 35001C0332G



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TITLE:		DESIGN	
WELLS PARK EXPANSION		DRAINAGE PLAN	
Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
City Project No. 568591	Zone Map No. J-14-Z	Drawing No. C-142	Sheet Of

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	WORKED BY	BENCHMARK LOCATED AT THE SOUTHWEST CORNER OF THE SITE, CONTROL POINT #40008, PK SURVEY 11808, N 1490749.64, E 15206661.14, Z 4960.59	DATE	NO.	BY	NO.	BY
INSPECTOR'S ACCEPTANCE BY	DATE						
VERIFICATION BY	DATE						
DRAWINGS CORRECTED BY	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
	NO.						

