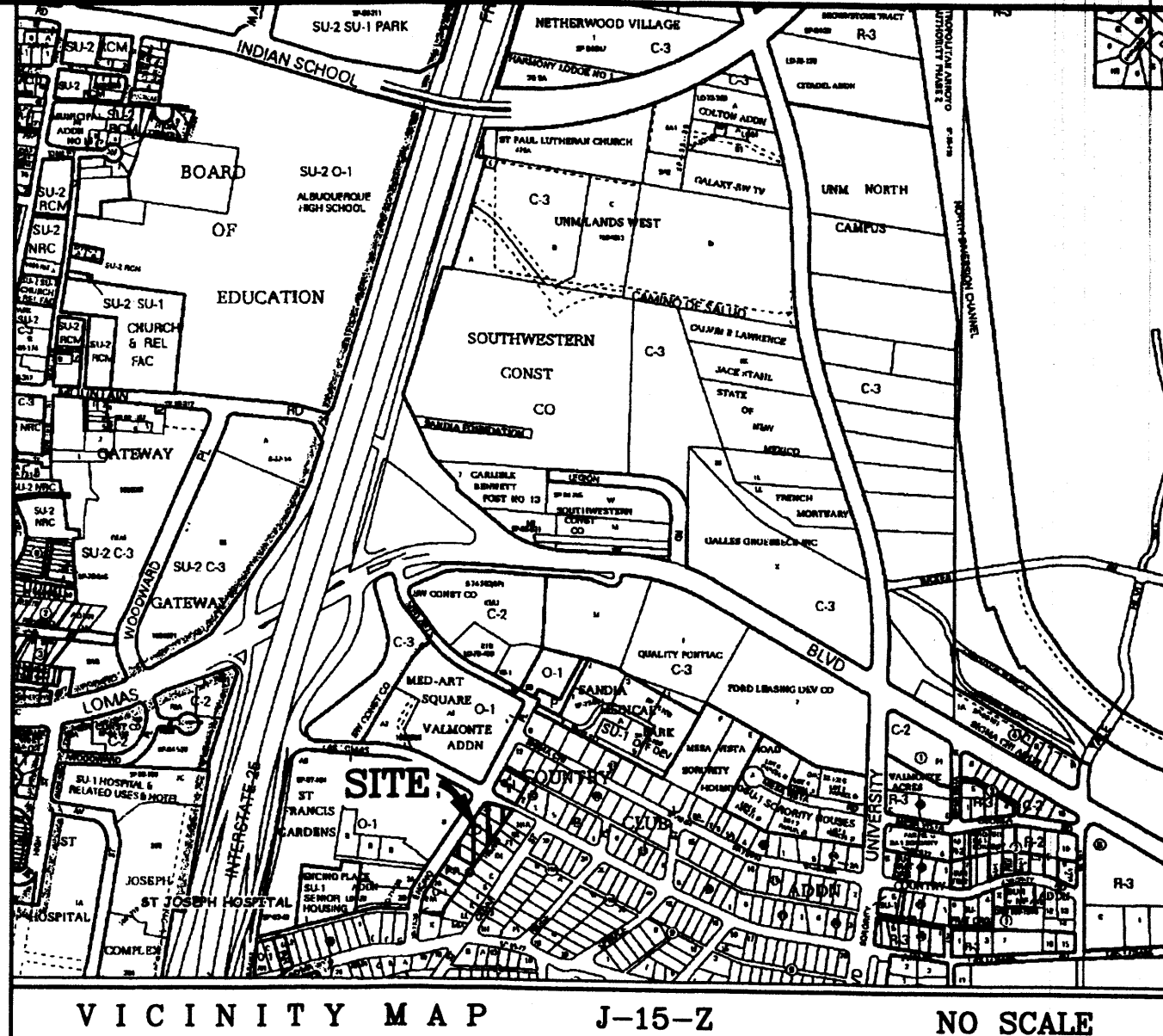
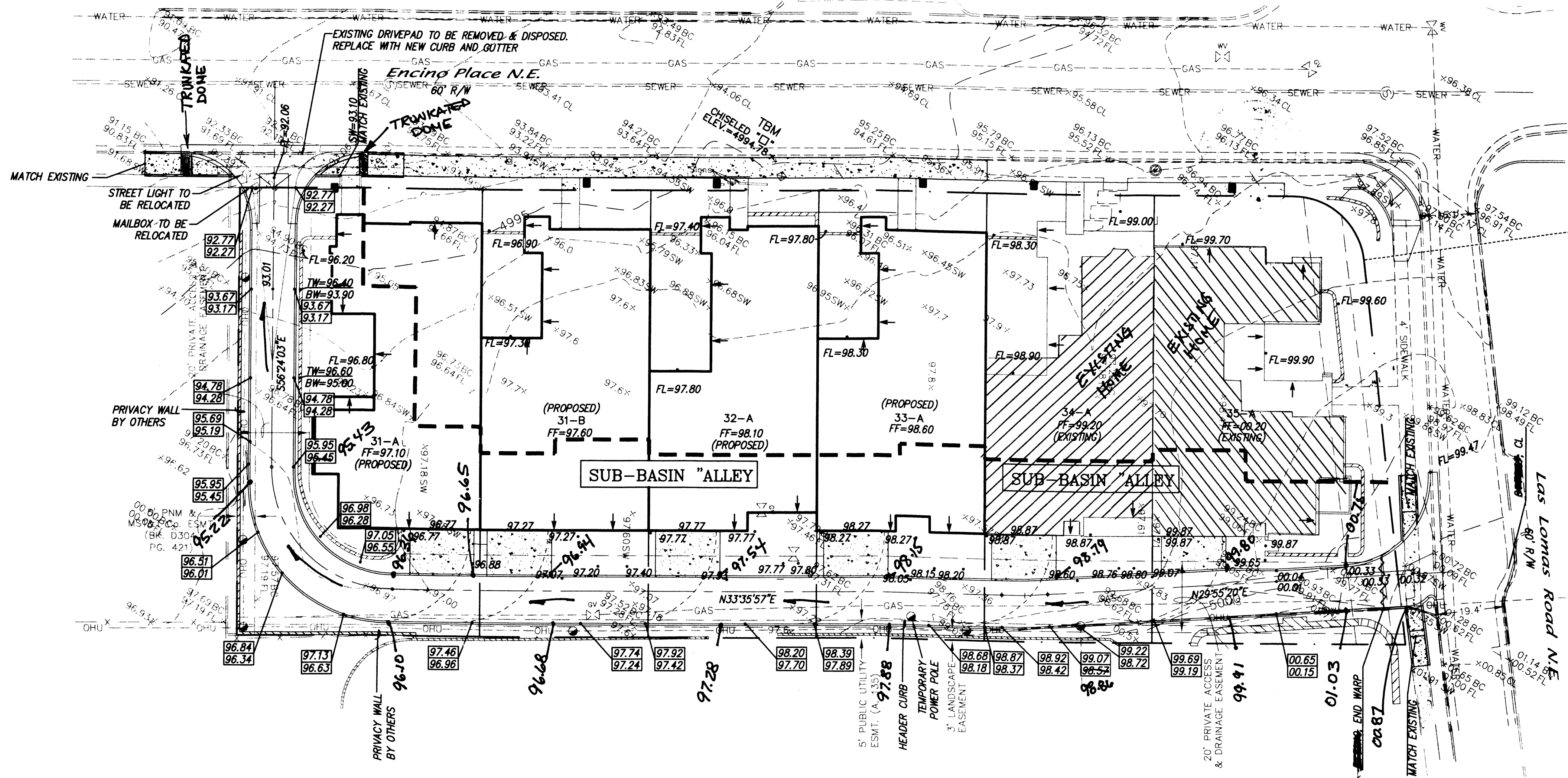




DRAINAGE DATA

CONDITION	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
	year	(Table 4)	sq. ft.	(Table 8)	(Table 9)	cu. ft.	cfs
EXISTING	10	A	0	0.13	0.39	0	0.00
		B	7371	0.28	0.95	172	0.16
		C	0	0.52	1.71	0	0.00
		D	32897	1.34	3.14	3885	2.28
		TOTAL	40368			3857	2.54
DEVELOPED	100	A	0	0.53	1.56	0	0.00
		B	7371	0.78	2.28	479	0.38
		C	0	1.13	3.14	0	0.00
		D	32897	2.12	4.7	5829	3.58
		TOTAL	40368			6309	3.96
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	9701	0.28	0.95	226	0.21
		C	0	0.52	1.71	0	0.00
		D	30667	1.34	3.14	3424	2.21
		TOTAL	40368			3651	2.42
DEVELOPED	100	A	0	0.53	1.56	0	0.00
		B	9701	0.78	2.28	631	0.51
		C	0	1.13	3.14	0	0.00
		D	30667	2.12	4.7	5418	3.31
		TOTAL	40368			6048	3.82
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	4182	0.28	0.95	98	0.14
		C	0	0.52	1.71	0	0.00
		D	15596	1.34	3.14	1741	1.70
		TOTAL	19778			1839	1.84
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	782	0.28	0.95	18	0.02
		C	0	0.52	1.71	0	0.00
		D	2436	1.34	3.14	272	0.18
		TOTAL	3218			289	0.19

Spruce Park Compound
Drainage Certification

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, P.A. hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 2-16-12. The record information edited onto the original design document has been obtained by Will Plotner, NMPS 14271, of the firm Cartesian Survey. I further certify that I have personally visited the project site on 11-9-12 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Release of SIA.

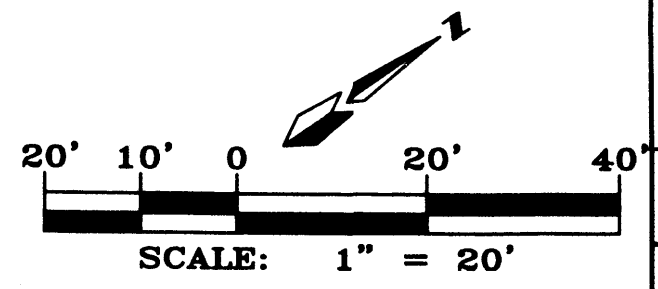
The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Diane Hoelzer
Signature
8-30-13
Date

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ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

* THIS PROJECT WAS CONSTRUCTED W/ PROJ. NO. 652281.
THE PRIVATE DRIVE WAS CONSTRUCTED IN
ACCORDANCE TO THOSE PLANS

Q_{ALLEY} = 1.84 cfs. SEE AHYMO
OUTPUT, DRAINAGE REPORT FOR
SPRUCE PARK COMPOUND.



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

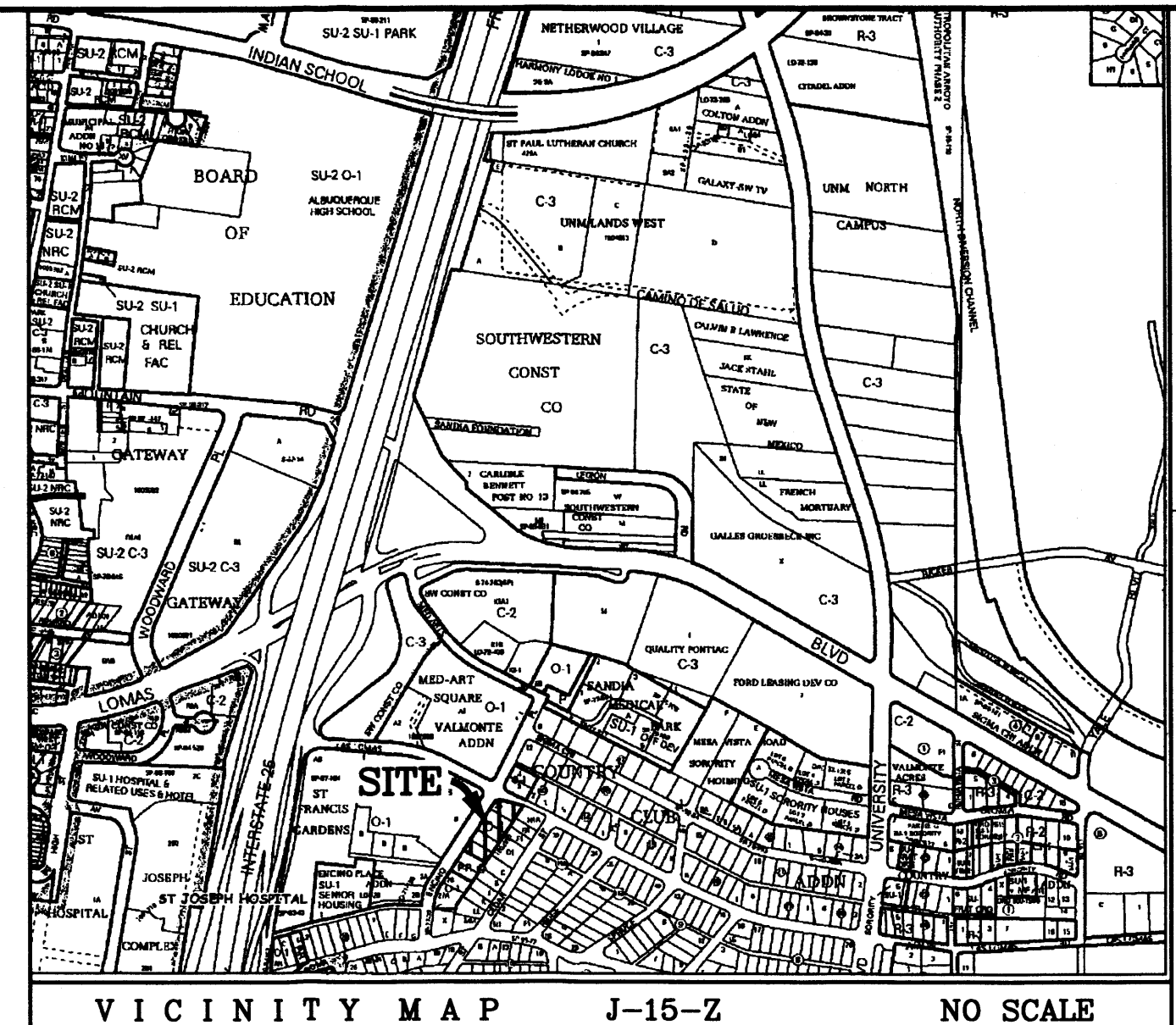
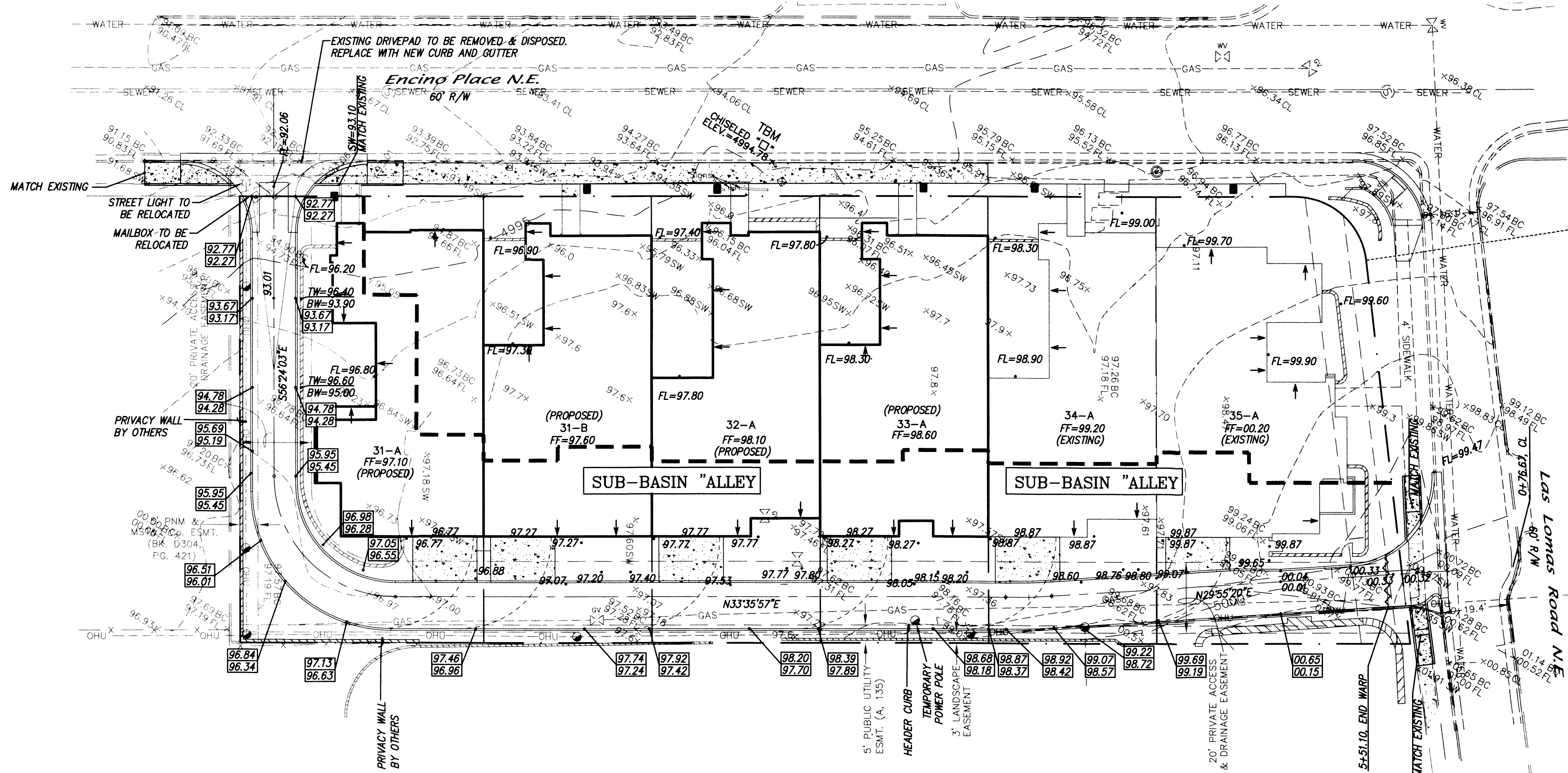
TITLE: **SPRUCE PARK COMPOUND
GRADING & DRAINAGE PLAN**

DESIGN REVIEW COMMITTEE: CITY ENGINEER APPROVAL

MO./DAY/YR. MO./DAY/YR.

LAST DESIGN UPDATE

CITY PROJECT NO. **652281** ZONE MAP NO. **J-15-Z** SHEET **3** OF **5**



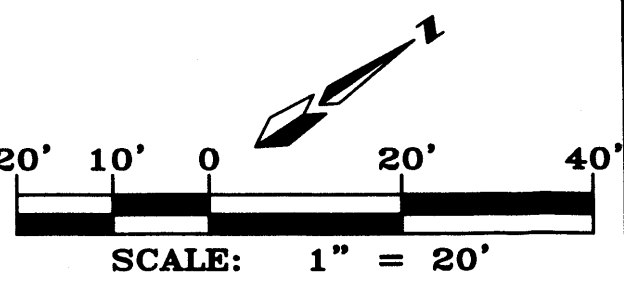
- LEGEND**
- EXISTING CURB AND GUTTER
 - EX. CONT_MJR
 - EX. CONT_MNR
 - EX. TOP CURB
 - EX. FL=FLOWLINE
 - EX. SPOT ELEVATION
 - EX. WHEELCHAIR RAMP
 - EX. SIGNS
 - EX. MAILBOX
 - EX. SANITARY SEWER MANHOLE
 - EX. WATER VALVE
 - EX. POWER POLE
 - EX. FIRE HYDRANT
 - EX. STREET LIGHT
 - EX. WATER METER
 - EX. SPRINKLER VALVE
 - EX. SANITARY SEWER SERVICE
 - EX. WATER SERVICE
 - EX. UNDER GROUND TELEPHONE
 - EX. UNDER GROUND ELECTRIC
 - EX. UNDER GROUND GAS LINE
 - EX. OVERHEAD UTILITIES
 - NEW WATER BREAK
 - PROPOSED BOUNDARY LINE
 - PROPOSED SPOT ELEVATION
 - FINISHED FLOOR
 - PROPOSED SPOT TOP OF CURB
 - PROPOSED SPOT FL OF CURB
 - PROPOSED TOP OF WALL
 - PROPOSED BOTTOM OF WALL
 - FLOW DIRECTION
 - NEW CURB AND GUTTER

DRAINAGE DATA

CONDITION	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
	year	(table 4)	sq. ft.	in.	(table 9) cfs/acre	cu. ft.	cfs
EXISTING	10	A	0	0.13	0.38	0	0.00
		B	7371	0.28	0.95	172	0.16
		C	0	0.52	1.71	0	0.00
		D	32897	1.34	3.14	3885	2.38
		TOTAL	40368			3857	2.54
DEVELOPED	100	A	0	0.53	1.56	0	0.00
		B	7371	0.78	2.28	479	0.38
		C	0	1.13	3.14	0	0.00
		D	32897	2.12	4.7	5829	3.56
		TOTAL	40368			6309	3.96
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	9701	0.28	0.95	226	0.21
		C	0	0.52	1.71	0	0.00
		D	30667	1.34	3.14	3424	2.21
		TOTAL	40368			3651	2.42
DEVELOPED	100	A	0	0.53	1.56	0	0.00
		B	9701	0.78	2.28	631	0.51
		C	0	1.13	3.14	0	0.00
		D	30667	2.12	4.7	5418	3.31
		TOTAL	40368			6048	3.82
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	4182	0.28	0.95	98	0.14
		C	0	0.52	1.71	0	0.00
		D	15595	1.34	3.14	1741	1.70
		TOTAL	19778			1839	1.84
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	782	0.28	0.95	18	0.02
		C	0	0.52	1.71	0	0.00
		D	2436	1.34	3.14	272	0.19
		TOTAL	3218			290	0.19

Q_{ALLEY} = 1.84 cfs. SEE ANYMO OUTPUT, DRAINAGE REPORT FOR SPRUCE PARK COMPOUND.

RECEIVED
FEB 16 2012
HYDROLOGY SECTION



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CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87199
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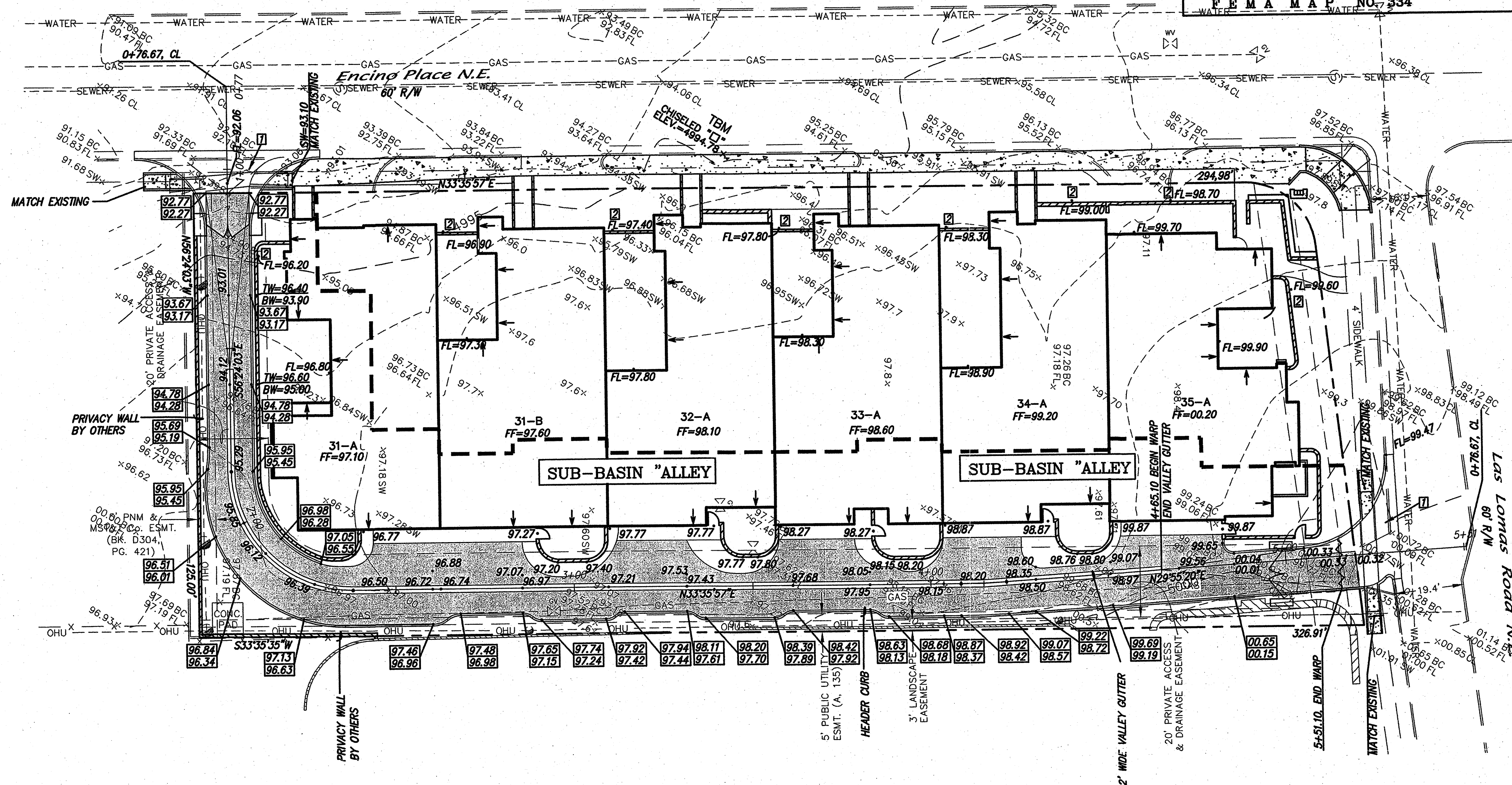
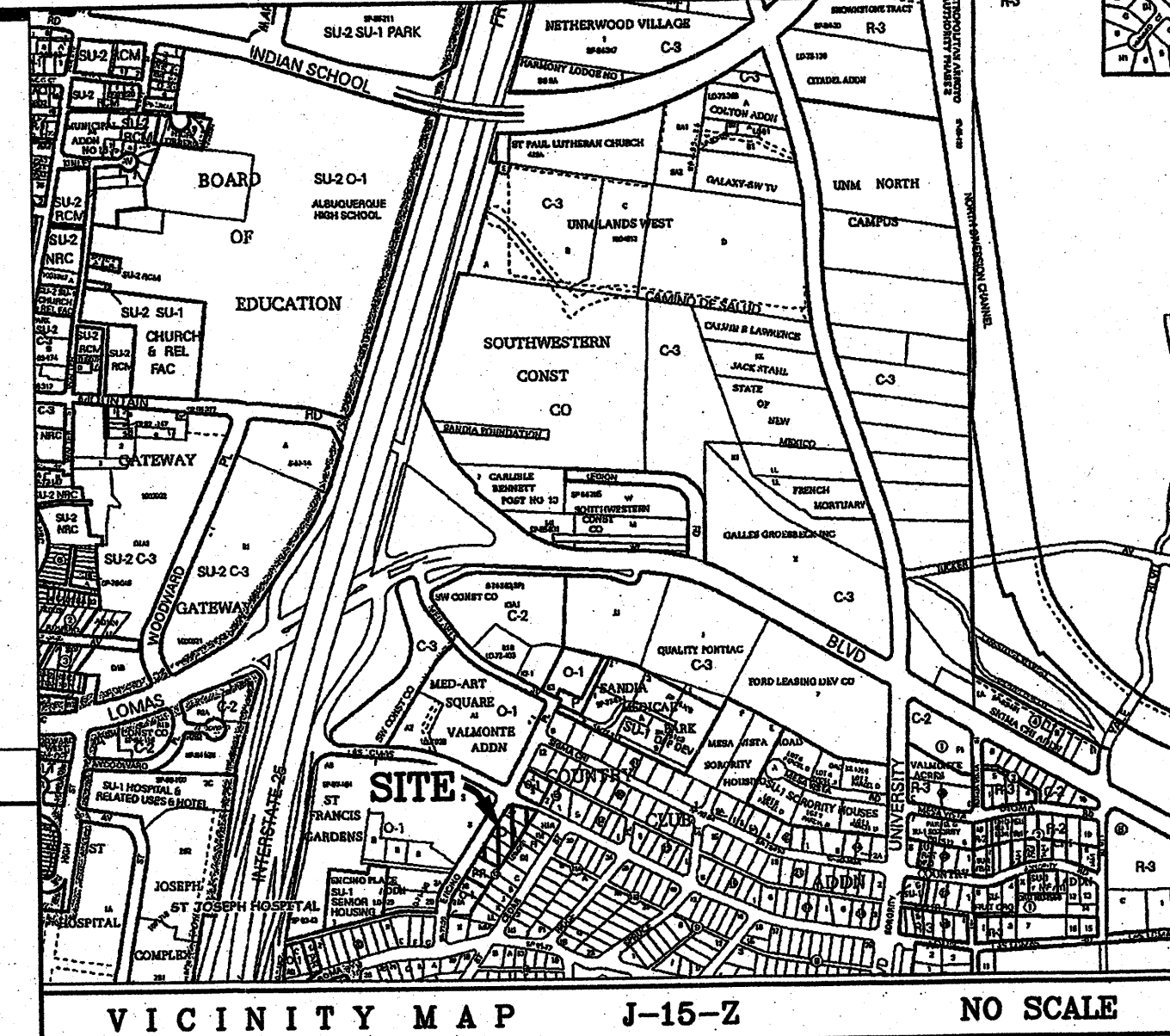
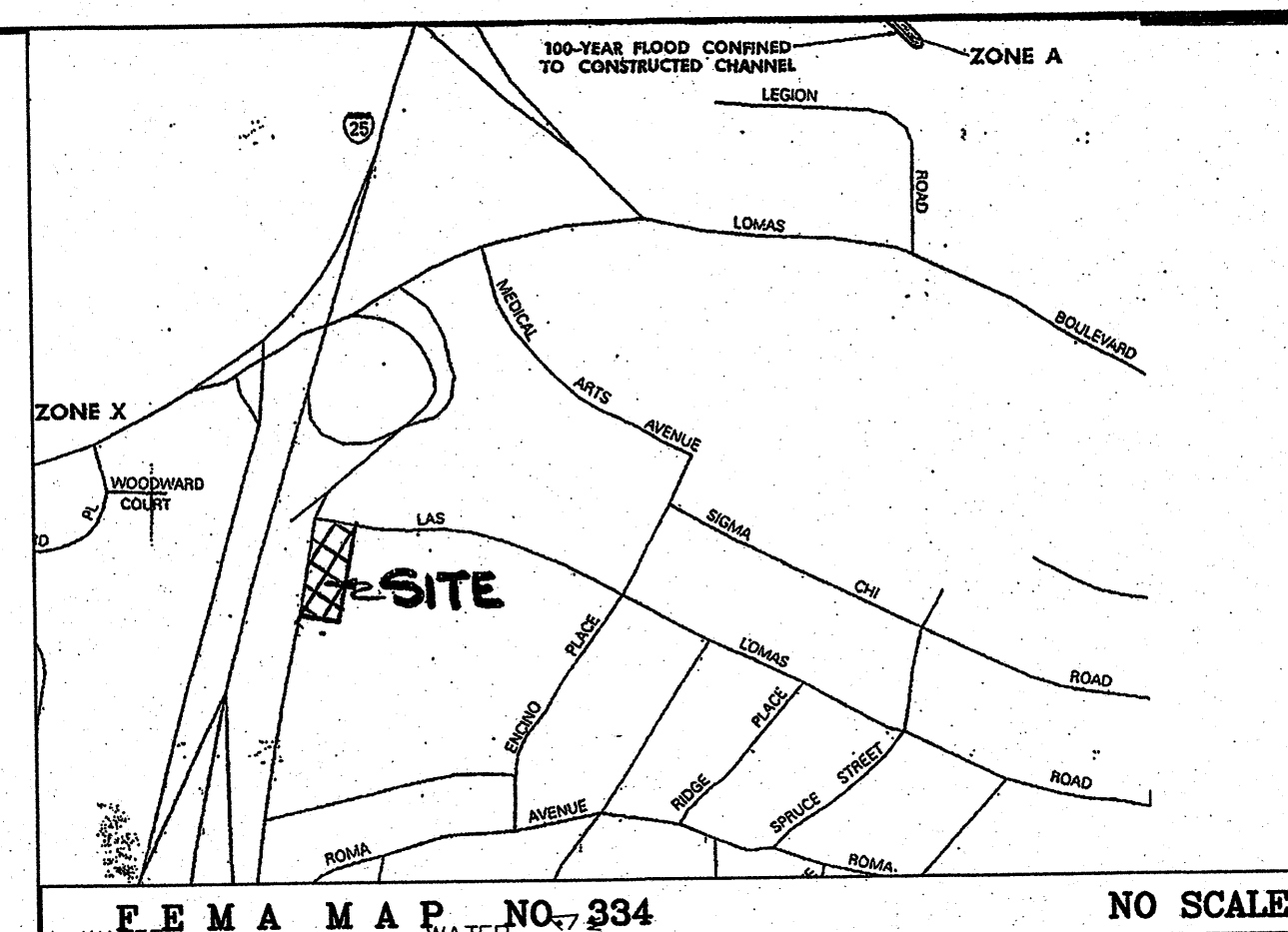
**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

TITLE: **SPRUCE PARK COMPOUND
GRADING & DRAINAGE PLAN**

DESIGN REVIEW COMMITTEE: CITY ENGINEER APPROVAL

MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. **652281** ZONE MAP NO. **J-15-Z** SHEET **3** OF **5**

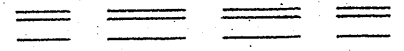
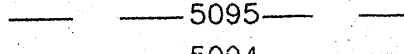
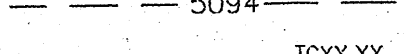
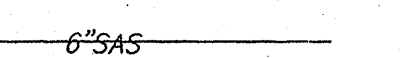
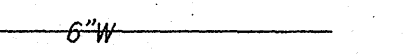
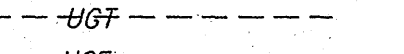
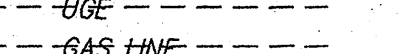
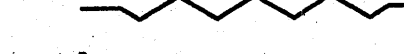
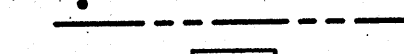
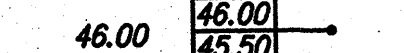
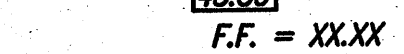
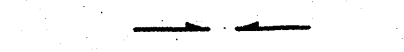
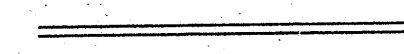
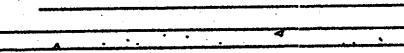


NOTES:

- ⑦ CONSTRUCT PRIVATE ENTRANCE PER COA STD DWG #2426.
SECTION C-C DETACHED SIDEWALK, MODIFIED PER PLAN
AND DETAILS SHEET 6.
- ⑧ CONSTRUCT 8"x8" WALL OPENING, FLOWLINE PER PLAN.

- 2 CONSTRUCT 8"x8" WALL OPENING, FLOWLINE PER PLAN.

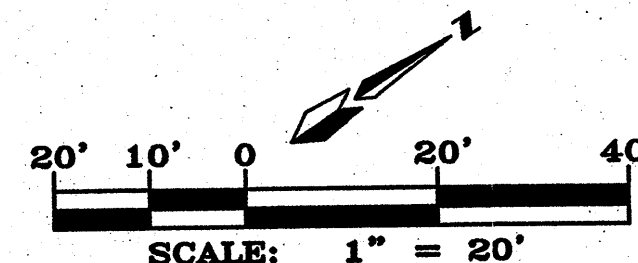
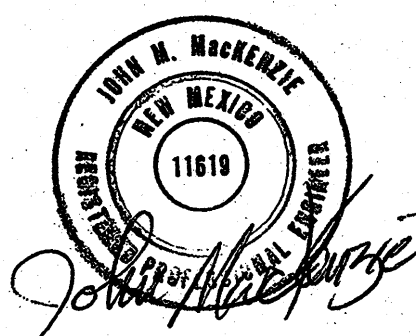
LEGEND

-  EX. CURB AND GUTTER
 EX. COM. MANH.
 EX. COM. MANH.
 EX. TOP CURB
 EX. FL=FLOWLINE
 EX. SPOT ELEVATION
 EX. WHEELCHAIR RAMP
 EX. SIGN
 EX. SANITARY SEWER MANHOLE
 EX. WATER VALVE
 EX. SANITARY SEWER SERVICE
 EX. WATER WARE SERVICE
 EX. UNDER GROUND TELEPHONE
 EX. UNDER GROUND ELECTRIC
 EX. UNDER GROUND GAS LINE
 EX. FIRE HYDRANT
 EX. OVERHEAD UTILITIES
 EX. UNDERGROUND TELEPHONE LINE SPOT
 EX. ELECTRIC
 EX. TELEPHONE MANHOLE
 EX. TELEPHONE PEDESTAL
 EX. LIGHT POLE
 CL. MONUMENT
 EX. GATE VALVE
 NEW WATER BRACK
 PROPOSED BOUNDARY LINE
 PROPOSED SPOT ELEVATION
 FINISHED FLOOR
 FLOW DIRECTION
 NEW CURB AND GUTTER
 NEW VALLEY GUTTER
 NEW ASPHALT PAVEMENT

DRAINAGE DATA

CONDITION	STATUS	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
		year	(table 4)	sq. ft.	(table 8) in.	(table 9) cfs/acre	cu. ft.	cfs
EXISTING	SITE	10	A	0	0.13	0.38	0	0.00
			B	7371	0.28	0.95	172	0.16
			C	0	0.52	1.71	0	0.00
			D	32897	1.34	3.14	3695	2.80
			TOTAL	40368			3957	2.64
	100	A	0	0.53	1.56	0	0.00	
		B	7371	0.78	2.28	479	0.38	
		C	0	1.13	3.14	0	0.00	
		D	32897	2.12	4.7	5829	3.58	
		TOTAL	40368			6309	3.95	
DEVELOPED	SITE	10	A	0	0.13	0.38	0	0.00
			B	9704	0.28	0.95	236	0.21
			C	0	0.52	1.71	0	0.00
			D	30667	1.34	3.14	3424	2.21
			TOTAL	40368			3681	2.42
	100	A	0	0.53	1.56	0	0.00	
		B	9704	0.78	2.28	631	0.51	
		C	0	1.13	3.14	0	0.00	
		D	30667	2.12	4.7	5418	3.31	
		TOTAL	40368			6049	3.82	
DEVELOPED	ALLEY	10	A	0	0.13	0.38	0	0.00
			B	3183	0.28	0.95	98	0.14
			C	0	0.52	1.71	0	0.00
			D	15695	1.34	3.14	1741	1.70
			TOTAL	19778			1839	1.84
DEVELOPED	TYP	10	A	0	0.13	0.38	0	0.00
			B	782	0.28	0.95	18	0.02
			C	0	0.52	1.71	0	0.00
			D	2486	1.34	3.14	272	6.16
			TOTAL	3218			290	9.15

Q100 ALLEY= 1.84cfs. SEE AHYMO
OUTPUT, DRAINAGE REPORT FOR
SPRUCE PARK COMPOUND.



F:\A07\JOBS\A07040 Spruce Park Compound\dwg\Grade & Drain\A07040_GD2.dwg 2/13/08 CAR, RFH

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199 4990
OFFICE (505) 828-2200. FAX (505) 797-9539

 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ***SPRUCE PARK COMPOUND
GRADING & DRAINAGE PLAN***

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	DATE	MO./DAY/YR.	MO./DAY/YR.
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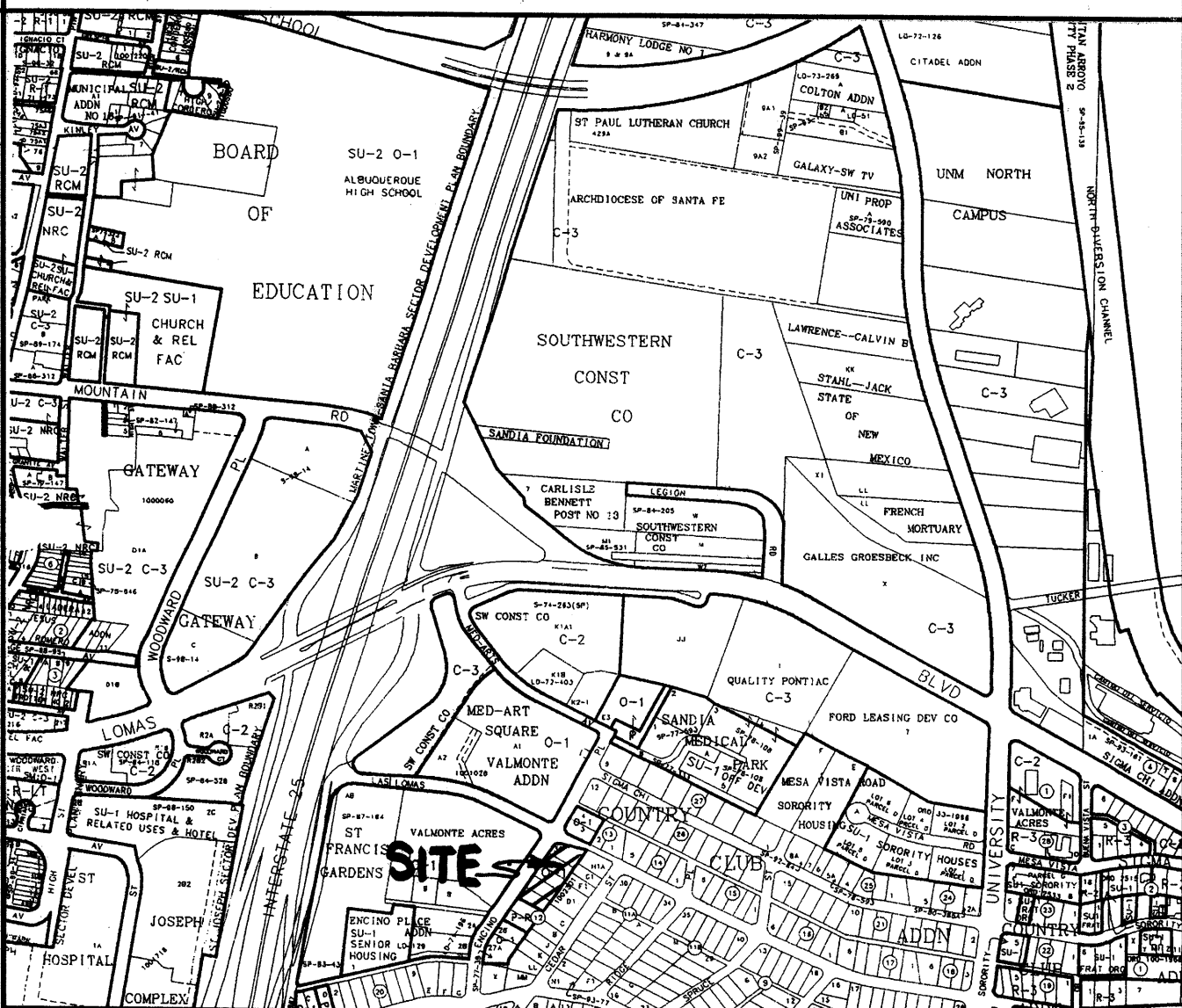
CITY PROJECT NO. _____ HYDROLOGIC SECTION _____ ONE MAP NO. _____

HYDROLOGY
SECTION

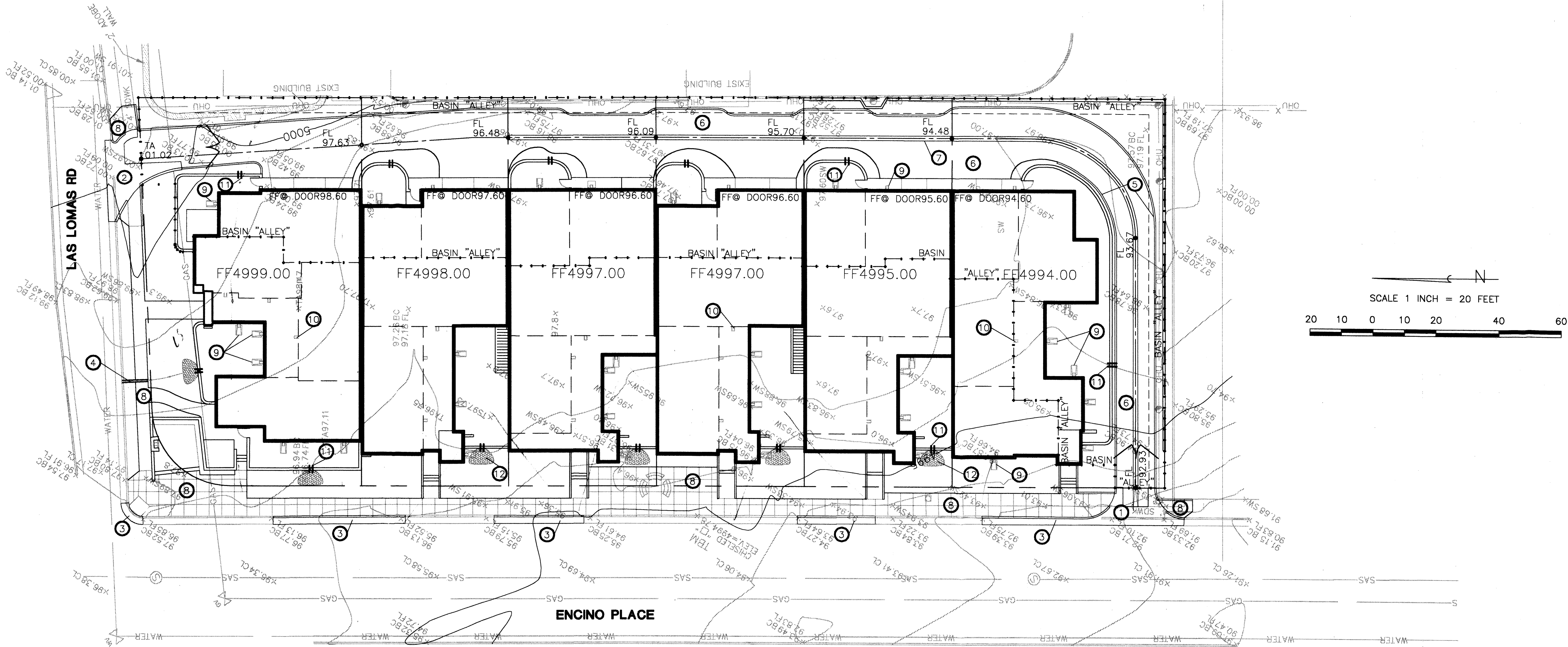
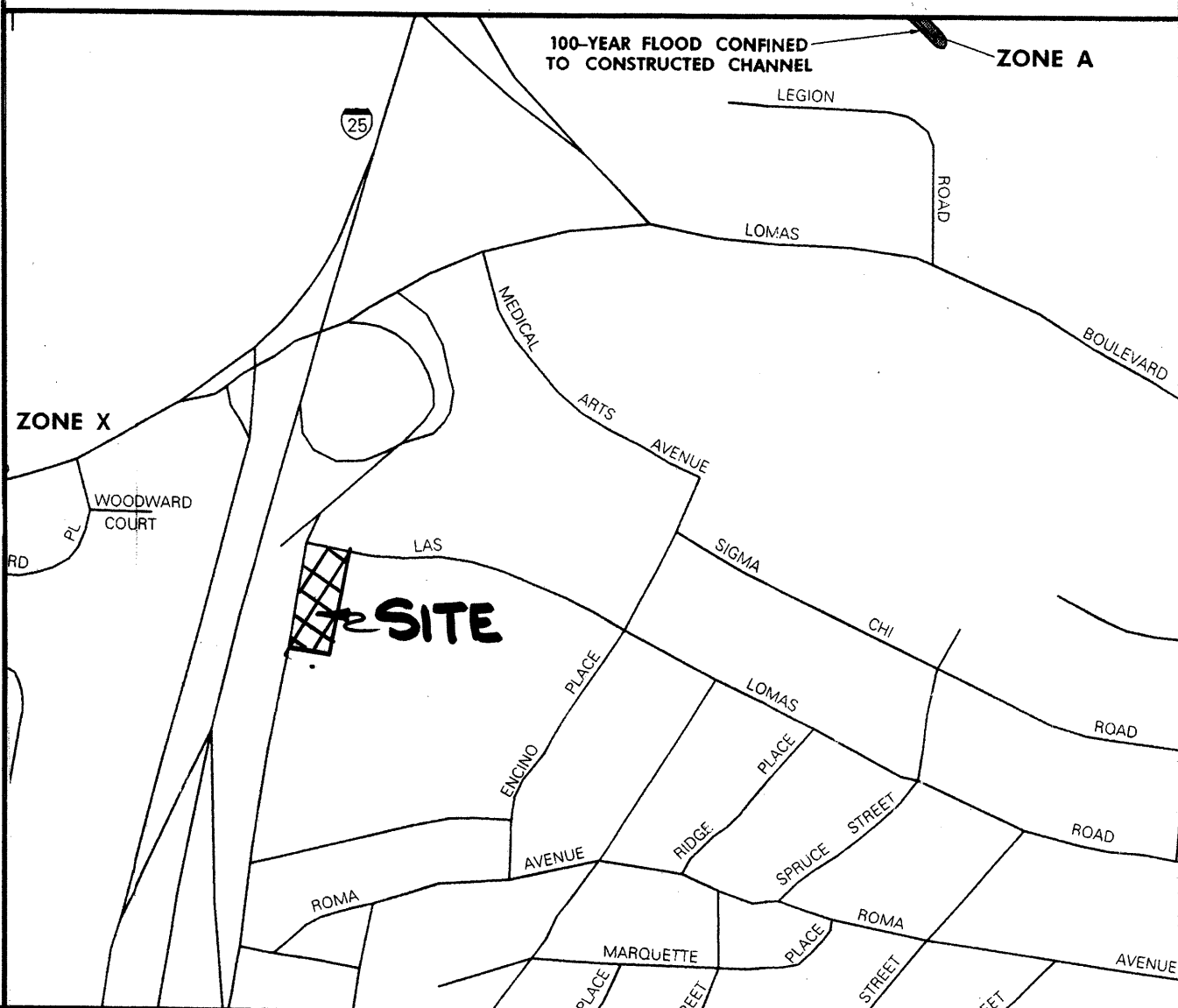
FEB 19 2008

GRADING AND DRAINAGE PLAN

VICINITY MAP NO. J-15



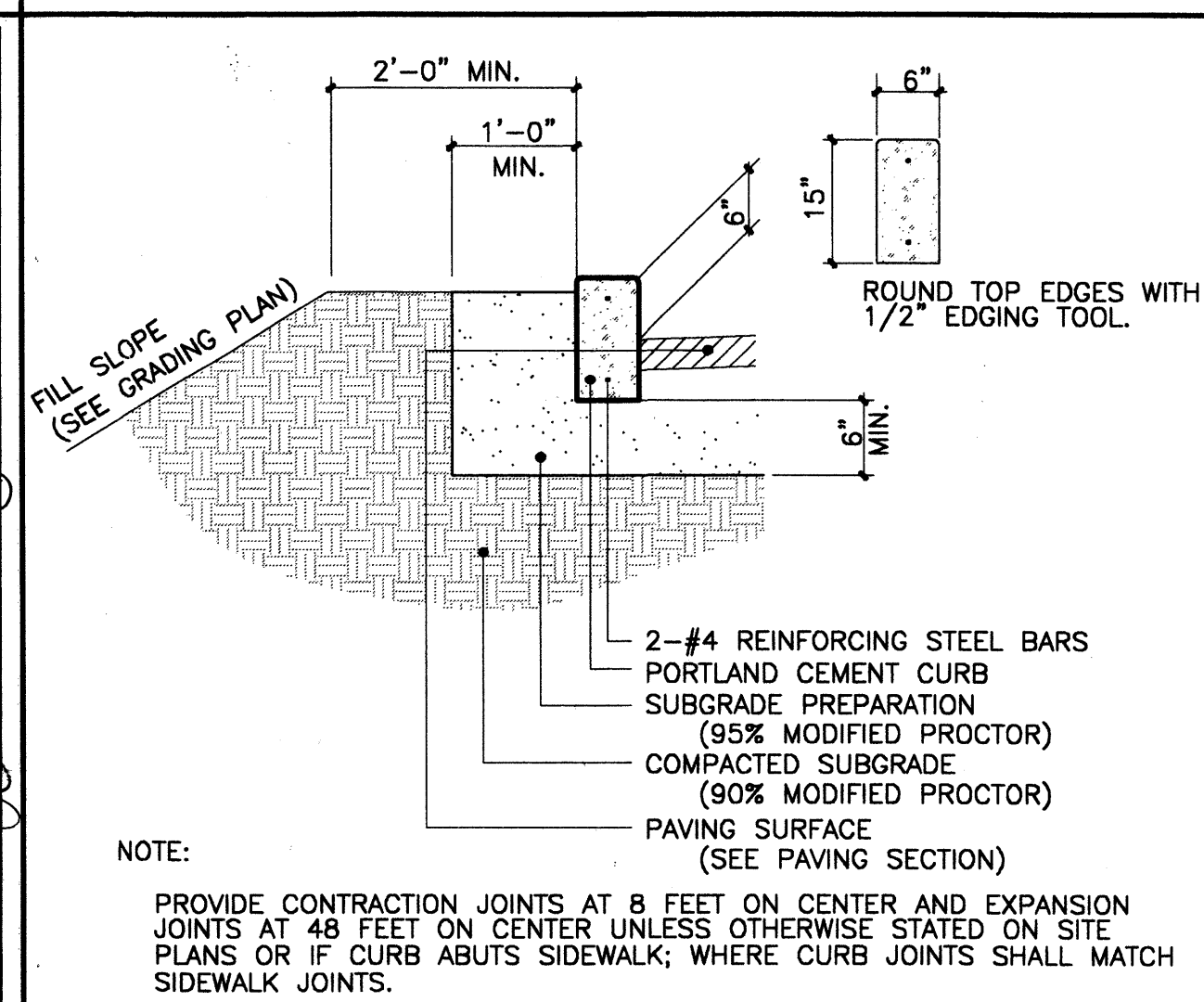
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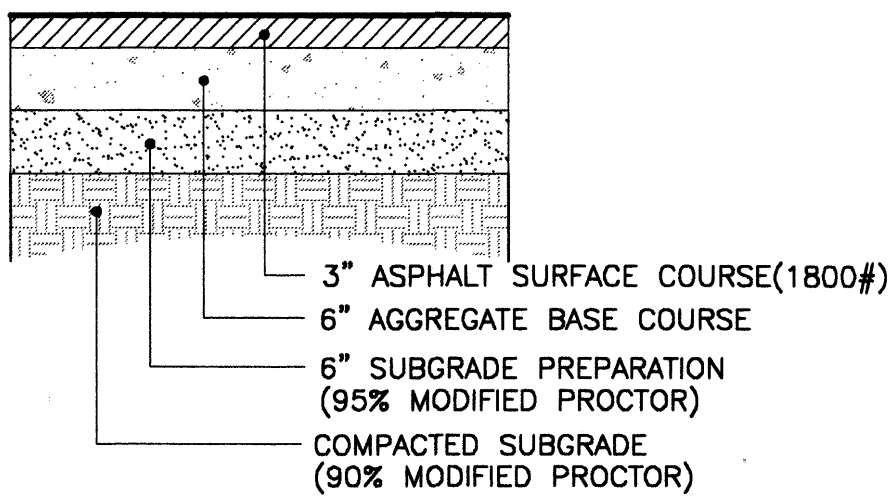
DRAINAGE DATA

CONDITION	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
	year	(table 4)	sq. ft.	(table 8)	(table 9)	cu. ft.	cfs
EXISTING	10	A	0	0.13	0.38	0	0.00
		B	7371	0.28	0.95	172	0.16
		C	0	0.52	1.71	0	0.00
		D	32997	1.34	3.14	3685	2.38
		TOTAL	40368			3857	2.54
DEVELOPED	100	A	0	0.53	1.56	0	0.00
		B	7371	0.78	2.28	479	0.39
		C	0	1.13	3.14	0	0.00
		D	32997	2.12	4.7	5829	3.56
		TOTAL	40368			6309	3.95
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	9701	0.28	0.95	226	0.21
		C	0	0.52	1.71	0	0.00
		D	30667	1.34	3.14	3424	2.21
		TOTAL	40368			3651	2.42
DEVELOPED	100	A	0	0.53	1.56	0	0.00
		B	9701	0.78	2.28	631	0.51
		C	0	1.13	3.14	0	0.00
		D	30667	2.12	4.7	5418	3.31
		TOTAL	40368			6048	3.82
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	4163	0.28	0.95	98	0.09
		C	0	0.52	1.71	0	0.00
		D	15595	1.34	3.14	1741	1.12
		TOTAL	19758			1839	1.22
DEVELOPED	10	A	0	0.13	0.38	0	0.00
		B	782	0.28	0.95	18	0.02
		C	0	0.52	1.71	0	0.00
		D	2436	1.34	3.14	272	0.18
		TOTAL	3218			290	0.19

HEADER CURB



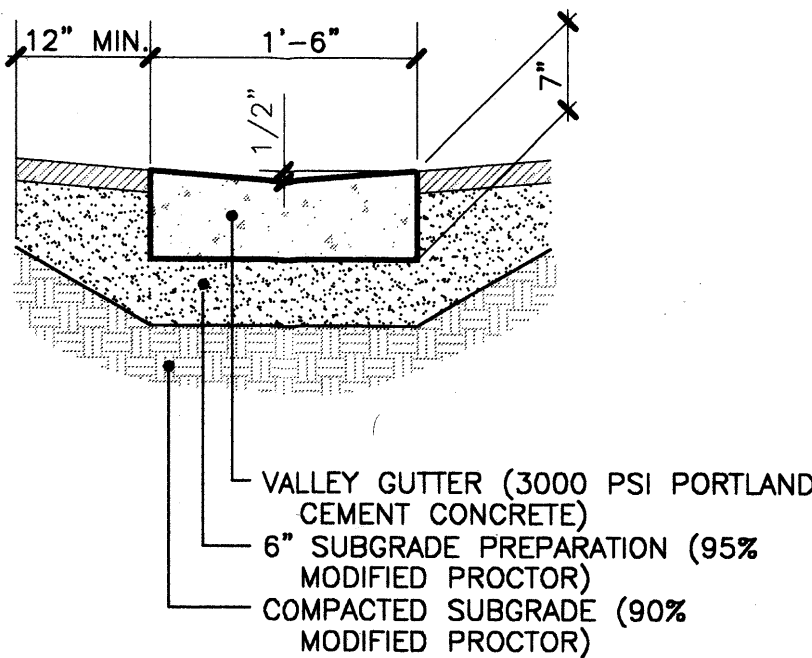
ASPHALT PAVEMENT



KEYED NOTES

- PRIVATE ENTRANCE DETAIL w/ RADII OF 10 FEET. SEE COA STD. DETAIL 2426 w/ UNI-DIRECTIONAL RAMPS.
- PRIVATE ENTRANCE DETAIL w/ RADII AS SHOWN ON SHEET C2.1. SEE ALL OTHER DETAILS ON 2426 w/ UNI-DIRECTIONAL RAMPS.
- NEW STD C&G. SEE COA STD DETAIL 2415A.
- 9" WIDE SIDEWALK CULVERT. SEE COA STD. DETAIL 2236.
- HEADER CURB. SEE DETAIL THIS SHEET.
- ASPHALT PAVING. SEE DETAIL THIS SHEET.
- VALLEY GUTTER. SEE DETAIL THIS SHEET.
- CONCRETE SIDEWALK. SEE DETAILS ON SHEET C2.1 OF THESE PLANS.
- ROOF DRAINAGE. SCUPPER AND SPLASH BLOCK. SHOWN TYPICAL.
- ROOF DRAINAGE. SCUPPER FROM UPPER ROOF LEVEL TO LOWER ROOF LEVEL. SHOWN TYPICAL.
- 2-3" DIAM. PVC PIPES THRU YARD WALLS OR 1-CMU ON EDGE AT GROUND LEVEL TO PROVIDE DRAINAGE. SHOWN TYPICAL.
- COBBLE ENERGY DISSIPATOR. COBBLE APPROX. 6" THICK ON FILTER CLOTH x 15 S.F. SURFACE OF COBBLE TO BE FLUSH w/ GROUND.

VALLEY GUTTER



LEGEND

- | | |
|-------------|-------------------------|
| TBM | TEMPORARY BENCHMARK |
| FF | FINISH FLOOR |
| FG | FINISH GRADE |
| FL | FLOWLINE |
| TA | TOP OF ASPHALT |
| TCP | TOP OF CONCRETE |
| TC | TOP OF CURB |
| TP | TOP OF EARTH PAD |
| TS | TOP OF SIDEWALK |
| TW | TOP OF WALL |
| FH | FIRE HYDRANT |
| WM | WATER METER |
| WV | WATER VALVE |
| MH | MANHOLE |
| CB | CATCH BASIN GRATE |
| GM | GAS METER |
| GV | GAS VALVE |
| LP | LIGHT POLE |
| PP | POWER POLE |
| GW | GUY WIRE |
| PED | ELEC. OR TEL. PEDESTAL |
| - - - | ROOF DRAINAGE BOUNDARY |
| - - - | DRAINAGE BASIN BOUNDARY |
| - - - | EXISTING CONTOUR |
| - - - | PROPOSED CONTOUR |
| XX.XX | EXISTING SPOT ELEVATION |
| XX.XX | PROPOSED SPOT ELEVATION |
| XX.XX-XX.XX | RECORD SPOT ELEVATION |

SITE CONDITIONS

EXISTING CONDITIONS

THE SITE IS PRESENTLY FULLY DEVELOPED AS MEDICAL OFFICES, COMPLETE WITH WITH PAVED PARKING. THE SITE IS GENERALLY UNIFORMLY GRADED FROM NORTHEAST TO SOUTHWEST. ALL SIDES OF THE SITE ARE CURRENTLY DEVELOPED AND THERE IS VERY LITTLE IF ANY OFFSITE STORM WATER RUNOFF ENTERING THE SITE. ALL EXISTING DRIVEWAYS TO THE SITE WILL BE REMOVED AND REPLACED WITH EITHER STANDARD CURB AND GUTTER OR NEW DRIVEWAY ENTRANCES. THERE IS A MINIMUM OF LANDSCAPED AREA ON THE PRESENT SITE AND IT WILL BE EXPANDED IN THE PROPOSED SITE.

PROPOSED CONDITIONS

THE SITE IS TO BE DEVELOPED AS SIX TOWNHOUSE UNITS. ALL UNITS WILL HAVE PEDESTRIAN ACCESS TO ENCINO PLACE AND VEHICULAR ACCESS (VIA A PRIVATE ALLEY) TO BOTH ENCINO PLACE AND LAS LOMAS. MOST OF THE STORM WATER RUNOFF FROM THE SITE WILL BE ROUTED TO ENCINO PLACE VIA SHEET FLOW FROM THE FRONT YARDS. CONCENTRATED FLOW WILL ENTER ENCINO PLACE AT THE SOUTHWEST CORNER OF THE SITE VIA THE PRIVATE ALLEY.

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STORM WATER RUNOFF FROM THE SITE IS REDUCED SLIGHTLY DUE TO THE AREA INCREASE OF DEVELOPED LANDSCAPE.

THE SITE IS LOCATED IN FLOOD HAZARD ZONE 'X' PER FEMA FIRM NUMBER 334 DATED NOVEMBER 19, 2003.

LEGAL DESCRIPTION

LOTS 31 THRU 35, BLOCK 12, COUNTRY CLUB ESTATES

PERMANENT BENCHMARK

ACS 11-J15, ELEVATION 5024.53 (NAVD 1988)

RECEIVED OCT 18 2006 HYDROLOGY SECTION

SPRUCE PARK COMPOUND

EDWARD FITZGERALD ARCHITECTS

121 JEFFERSON STREET NE ALBUQUERQUE, NEW MEXICO 87102

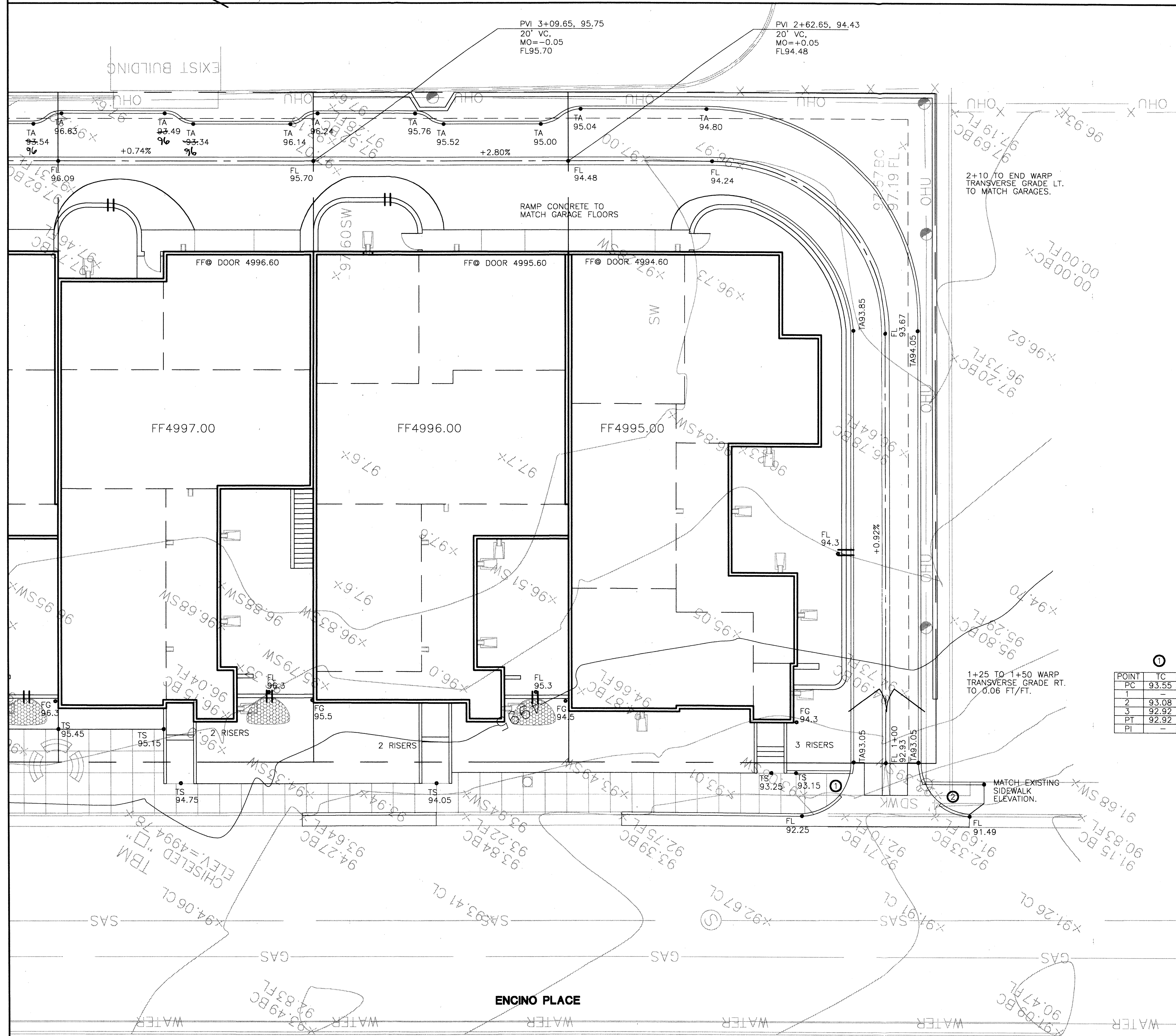
TEL 505.268.9055 FAX 505.265.2696

date: 9-16-06 drawn by: J

C3.1

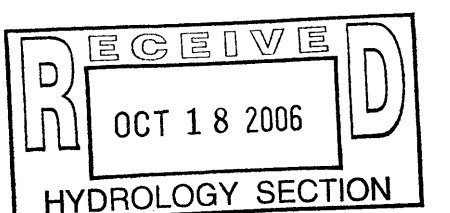
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GRADING PLAN NORTH



POINT	TC	FL
PC	93.55	93.05
1	—	92.69
2	93.08	92.41
3	92.92	92.25
PT	92.92	92.25
PI	—	92.06

POINT	TC	FL
PC	92.16	91.49
1	92.36	91.69
2	—	92.06
3	93.04	92.54
PT	93.55	93.05
PI	—	91.76



SPRUCE PARK COMPOUND

EDWARD
FITZGERALD

ARCHITECTS

121 JEFFERSON STREET NE
ALBUQUERQUE, NEW MEXICO
8 7 1 0 8
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FAX 505.265.2696

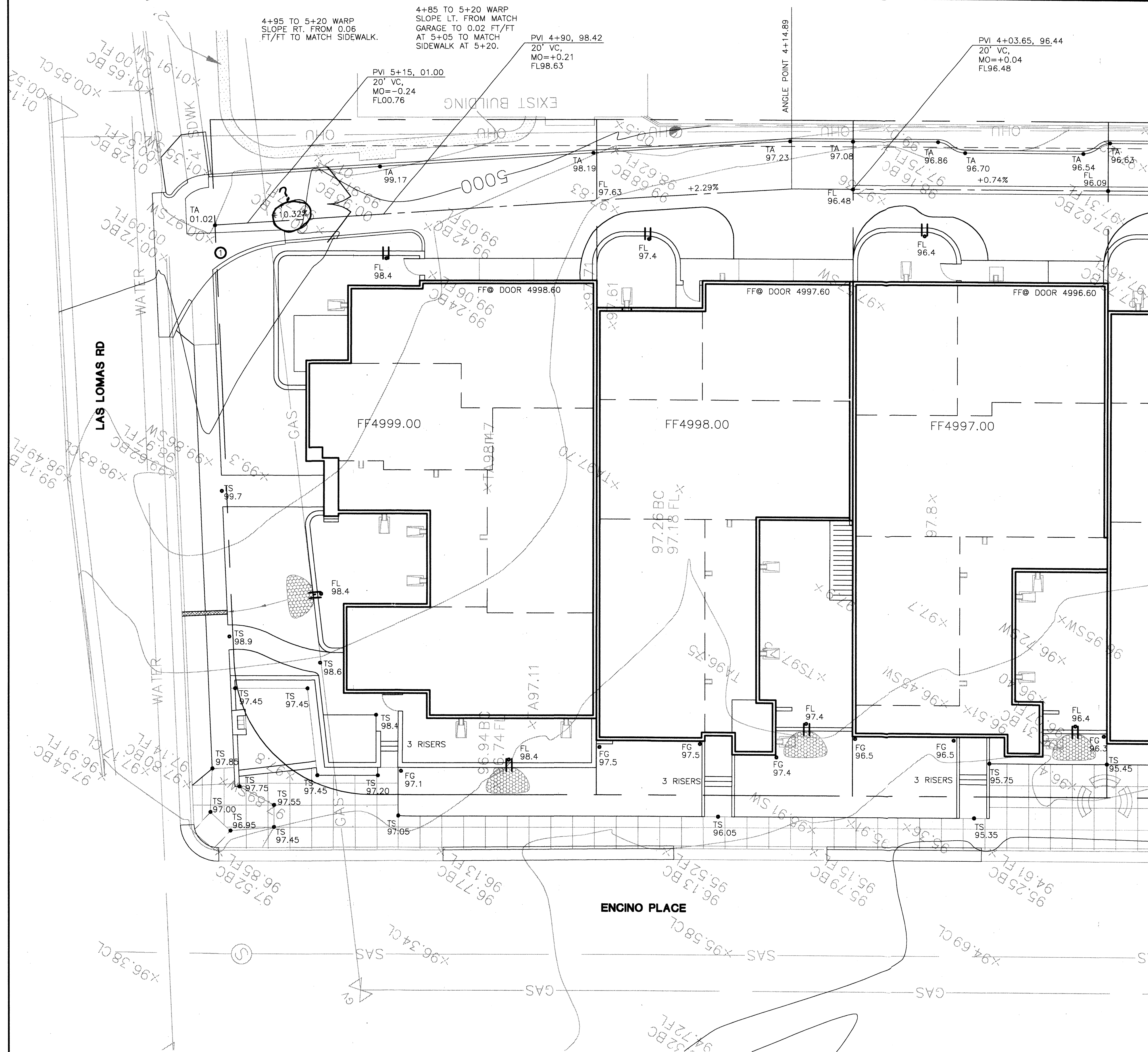


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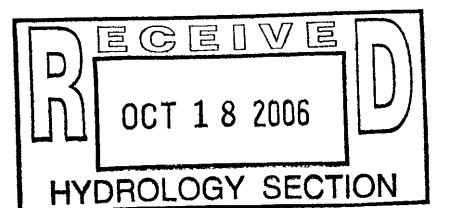
C3.2

sequence no. of X

GRADING PLAN NORTH



POINT	TC	FL
PC	00.36	99.69
1	00.93	00.26
2	01.49	00.82
3	01.39	00.72
PT	00.72	00.22
PI	-	00.09

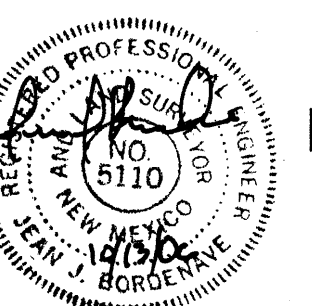


SPRUCE PARK COMPOUND

EDWARD
FITZGERALD

ARCHITECTS

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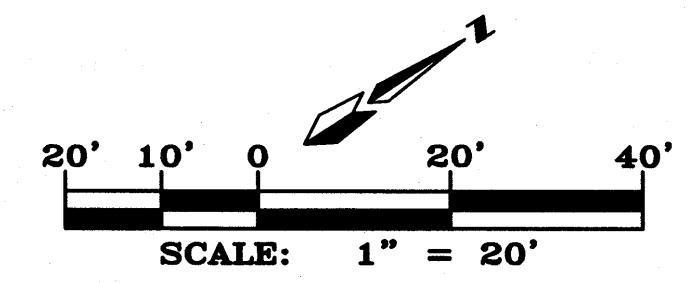
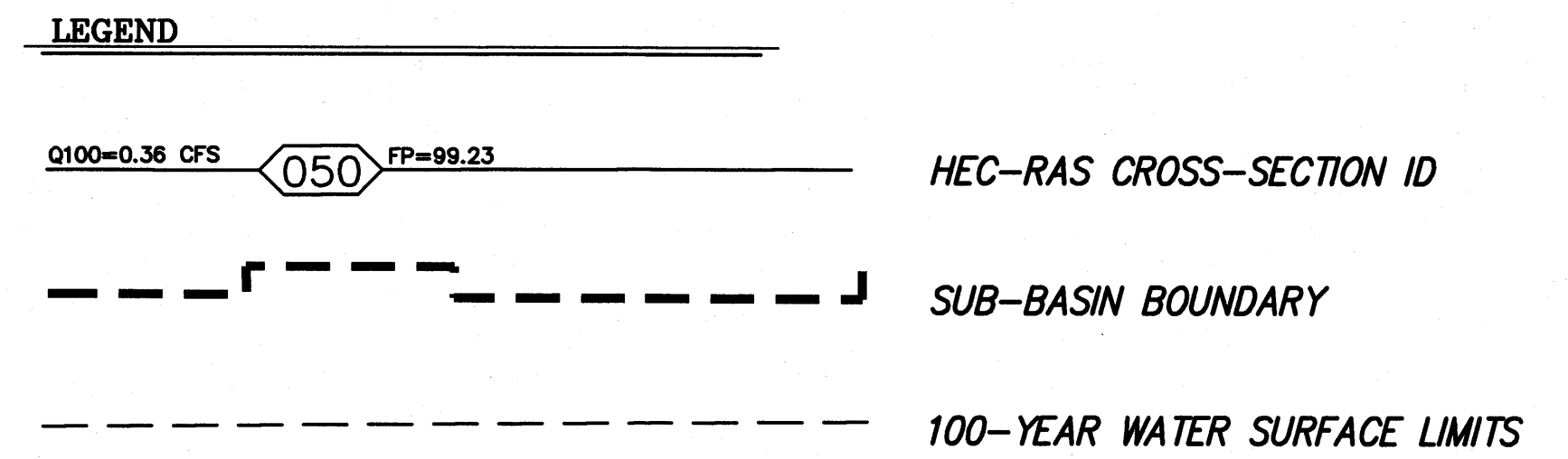


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drawn by: JF

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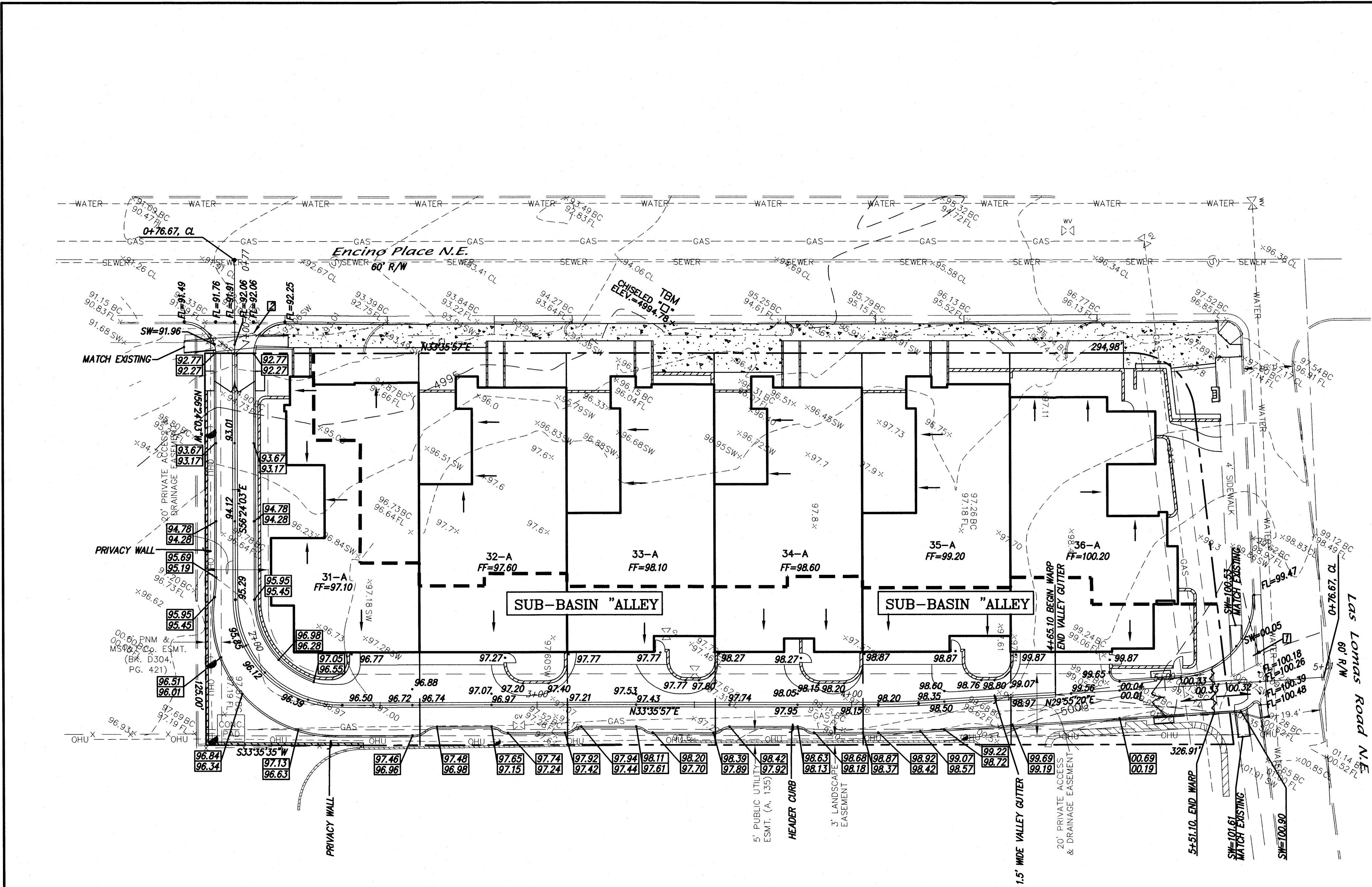
sequence no. of X



dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT			
TITLE: <i>SPRUCE PARK COMPOUND SUB-BASIN AND HEC-RAS MAP</i>				
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
CITY MAP NO.		SHEET OF		
<i>J-51-Z</i>		<i>1 1</i>		

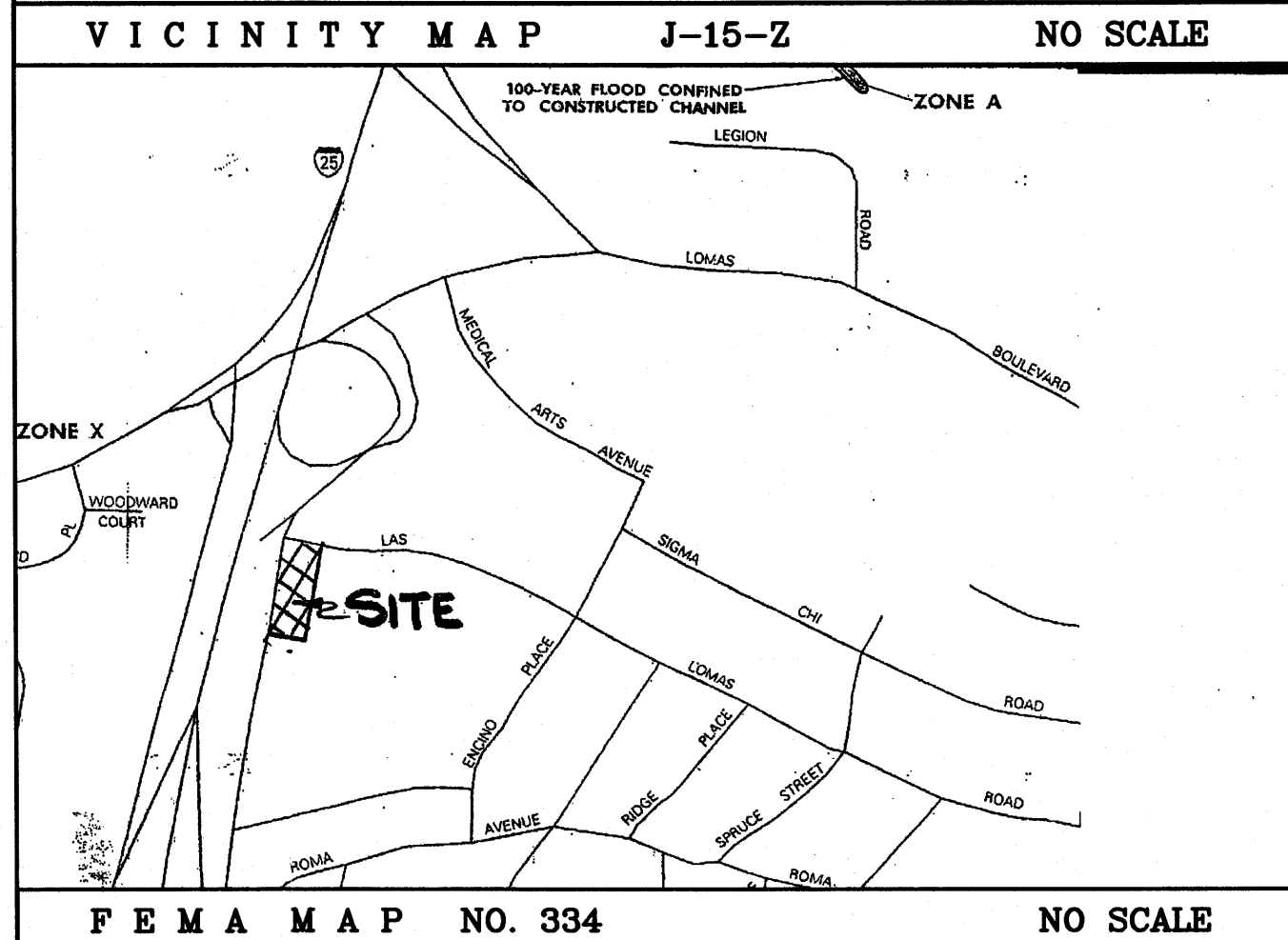
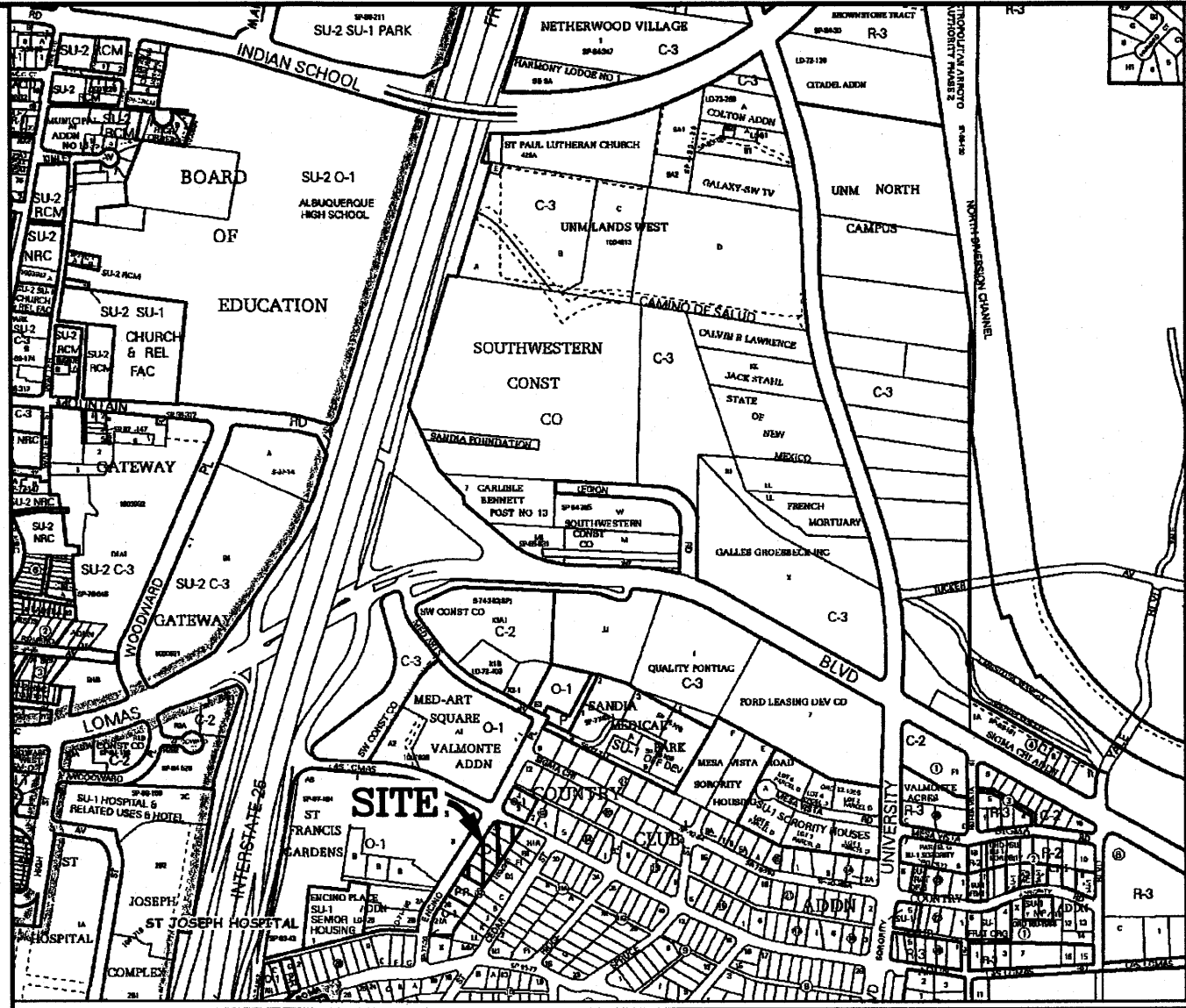
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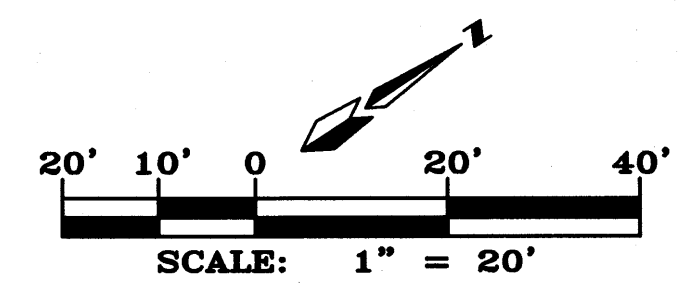
DRAINAGE DATA

CONDITION	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
	year	(table 4)	sq. ft.	(table 8)	(table 9)	cu. ft.	cfs
EXISTING	10	A	0	0.13	0.36	0	0.00
		B	7371	0.28	0.95	172	0.16
		C	0	0.52	1.71	0	0.00
		D	32697	1.34	3.14	3695	2.38
		TOTAL	40368			3867	2.54
	100	A	0	0.53	1.56	0	0.00
		B	7371	0.78	2.28	479	0.38
		C	0	1.13	3.14	0	0.00
		D	32697	2.12	4.7	5829	3.56
		TOTAL	40368			6309	3.95
DEVELOPED	10	A	0	0.13	0.36	0	0.00
		B	9701	0.28	0.95	226	0.21
		C	0	0.52	1.71	0	0.00
		D	30687	1.34	3.14	3424	2.21
		TOTAL	40688			3651	2.42
	100	A	0	0.53	1.56	0	0.00
		B	9701	0.78	2.28	631	0.51
		C	0	1.13	3.14	0	0.00
		D	30687	2.12	4.7	5419	3.31
		TOTAL	40688			6049	3.82
DEVELOPED	10	A	0	0.13	0.36	0	0.00
		B	4182	0.28	0.95	98	0.14
		C	0	0.52	1.71	0	0.00
		D	15895	1.34	3.14	1741	1.70
		TOTAL	19778			1839	1.84
DEVELOPED	10	A	0	0.13	0.36	0	0.00
		B	782	0.28	0.95	18	0.02
		C	0	0.52	1.71	0	0.00
		D	2436	1.34	3.14	272	0.18
		TOTAL	3218			290	0.19

Q100 ALLEY = 1.84cfs. SEE AHYMO OUTPUT, DRAINAGE REPORT FOR SPRUCE PARK COMPOUND.



- NOTES:
1. CONSTRUCT PAVING DRIVE PAD PER COA STD DWG #2425, SECTION C-C DETACHED SIDEWALK, MODIFIED PER PLAN.
 2. CONSTRUCT PAVING ALLEY INTERSECTION PER COA STD DWG #2428, SECTION A-A ATTACHED SIDEWALK, MODIFIED PER PLAN.



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **SPRUCE PARK COMPOUND
GRADING & DRAINAGE PLAN**

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

CITY PROJECT NO. ZONE MAP NO. J-51-Z SHEET 4 OF 6

DESIGNED BY PKT DATE 09/07
DRAWN BY RDQ DATE 09/07
CHECKED BY DMG DATE 09/07

REVISIONS
NO. 02 2007

A detailed map of the project area. The map shows a network of streets including Woodward Court, Medical Avenue, Arts Avenue, Sigma Avenue, Chi Avenue, Lomas Place, Spruce Street, Marquette Place, and Roma Avenue. A specific area is highlighted with a hatched pattern and labeled "The SITE". The map is divided into "ZONE X" and "ZONE A". A note at the top right states "100-YEAR FLOOD CONFINED TO CONSTRUCTED CHANNEL". A scale bar at the bottom left indicates distances in feet (0, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000). A north arrow is located at the bottom right.

CONDITION	BASIN	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
	N	year	(table 4)	sq. ft.	(table 8)	(table 9)		
					in.	cms/acre	cu. ft.	cfs
EXISTING	SITE	10	A	0	0.13	0.38	0	0.00
			B	7371	0.28	0.95	172	0.16
			C	0	0.52	1.71	0	0.00
			D	32997	1.34	3.14	3685	2.38
			TOTAL	40368			3857	2.54
	SITE	100	A	0	0.53	1.56	0	0.00
			B	7371	0.78	2.28	479	0.39
			C	0	1.13	3.14	0	0.00
			D	32997	2.12	4.7	5829	3.56
			TOTAL	40368			6309	3.95
DEVELOPED	SITE	10	A	0	0.13	0.38	0	0.00
			B	9701	0.28	0.95	226	0.21
			C	0	0.52	1.71	0	0.00
			D	30867	1.34	3.14	3424	2.21
			TOTAL	40368			3651	2.42
	SITE	100	A	0	0.53	1.56	0	0.00
			B	9701	0.78	2.28	631	0.51
			C	0	1.13	3.14	0	0.00
			D	30867	2.12	4.7	5418	3.31
			TOTAL	40368			8048	3.82
DEVELOPED	ALLEY	10	A	0	0.13	0.38	0	0.00
			B	4183	0.28	0.95	98	0.09
			C	0	0.52	1.71	0	0.00
			D	15595	1.34	3.14	1741	1.12
			TOTAL	19778			1839	1.22
DEVELOPED	TYP	10	A	0	0.13	0.38	0	0.00
			B	782	0.28	0.95	18	0.02
			C	0	0.52	1.71	0	0.00
			D	2438	1.34	3.14	272	0.18
			TOTAL	3218			290	0.19

2'-0" MIN.

1'-0" MIN.

6"

15"

60°

6" MIN.

ROUND TOP EDGES WITH 1/2" EDGING TOOL.

FILL SLOPE
(SEE GRADING PLAN)

2-#4 REINFORCING STEEL BARS

PORTLAND CEMENT CURB

SUBGRADE PREPARATION

(90% MODIFIED PROCTOR)

COMPACTED SUBGRADE

(90% MODIFIED PROCTOR)

PAVING SURFACE

(SEE PAVING SECTION)

NOTE:

PROVIDE CONTRACTION JOINTS AT 8 FEET ON CENTER AND EXPANSION JOINTS AT 48 FEET ON CENTER UNLESS OTHERWISE STATED ON SITE PLANS OR IF CURB ABUTS SIDEWALK; WHERE CURB JOINTS SHALL MATCH SIDEWALK JOINTS.

ASPHALT PAVEMENT

1. PRIVATE ENTRANCE DETAIL w/ RADIi OF 10 FEET. SEE COA STD. DETAIL 2426 w/ UNI-DIRECTIONAL RAMPS.
2. PRIVATE ENTRANCE DETAIL w/ RADIi AS SHOWN ON SHEET C2.1. SEE ALL OTHER DETAILS ON 2426 w/ UNI-DIRECTIONAL RAMPS.
3. NEW STD C&G. SEE COA STD DETAIL 2415A.
4. 9" WIDE SIDEWALK CULVERT. SEE COA STD: DETAIL 2236.
5. HEADER CURB. SEE DETAIL THIS SHEET.
6. ASPHALT PAVING. SEE DETAIL THIS SHEET.
7. VALLEY GUTTER. SEE DETAIL THIS SHEET.
8. CONCRETE SIDEWALK. SEE DETAILS ON SHEET C2.1 OF THESE PLANS.
9. ROOF DRAINAGE. SCUPPER AND SPLASH BLOCK. SHOWN TYPICAL.
10. ROOF DRAINAGE. SCUPPER FROM UPPER ROOF LEVEL TO LOWER ROOF LEVEL. SHOWN TYPICAL.
11. 2-3" DIAM. PVC PIPES THRU YARD WALLS OR 1-CMU ON EDGE AT GROUND LEVEL TO PROVIDE DRAINAGE. SHOWN TYPICAL.
12. COBBLE ENERGY DISSIPATOR. COBBLE APPROX. 6" THICK ON FILTER CLOTH x 15 S.F. SURFACE OF COBBLE TO BE FLUSH w/ GROUND).

Diagram illustrating the cross-section of a trench for a trench drain. The trench is 1'-6" wide and 1/2" deep. The bottom is covered with a 6" layer of compacted subgrade (90% modified proctor). The trench is lined with a 3000 PSI portland cement concrete (modified proctor). The trench is surrounded by a 12" minimum layer of compacted subgrade (90% modified proctor). The trench is covered with a trench cover.

Labels in the diagram:

- 12" MIN
- 1'-6"
- 1/2"
- 6" SUBGRADE PREPARATION (95% MODIFIED PROCTOR)
- VALLEY GUTTER (3000 PSI PORTLAND CEMENT CONCRETE)
- COMPACTED SUBGRADE (90% MODIFIED PROCTOR)

TBMM	TEMPORARY BENCHMARK
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
TA	TOP OF ASPHALT
TOP	TOP OF CONCRETE
TC	TOP OF CURB
TP	TOP OF EARTH PAD
TS	TOP OF SIDEWALK
TW	TOP OF WALL
FH	FIRE HYDRANT
WM	WATER METER
WV	WATER VALVE
MH	MANHOLE
CB	CATCH BASIN GRATE
GM	GAS METER
GV	GAS VALVE
LP	LIGHT POLE
PP	POWER POLE
GW	GUY WIRE
PED	ELEC. OR TEL. PEDESTAL
	ROOF DRAINAGE BOUNDARY
	DRAINAGE BASIN BOUNDARY
	EXISTING CONTOUR
	PROPOSED CONTOUR
XX.XX	EXISTING SPOT ELEVATION
XX.XX	PROPOSED SPOT ELEVATION
XX.XX XX.XX	RECORD SPOT ELEVATION

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THE SITE IS LOCATED IN FLOOD HAZARD ZONE 'X' PER FEMA FIRM NUMBER 334 DATED NOVEMBER 19, 2003.

LOTS 31 THRU 35, BLOCK 12, COUNTRY CLUB ESTATES

ACS 11-J15, ELEVATION 5024.53 (NAVD 1988)

E D W A R D F I T Z G E R A L D

ARCHITECTS

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8 7 1 0 8
TEL 505 . 2 6 8 . 9 0 3 5
FAX 505 . 2 6 5 . 2 6 9 6

date: **9-16-06**

drawn by: **jp**

C3.

sequence no. **X**

revisions:

of