CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



Mayor Timothy M. Keller

June 6, 2019

David Aube, P.E. Hartman & Majewski Design Group 120 Vassar Dr SE, Suite 100 Albuquerque, NM, 87106

RE: La Vida Liena 10501 Lagrima de Oro Road NE Conceptual Grading and Drainage Plan Engineer's Stamp Date: 04/22/19 Hydrology File: F21D028

Dear Mr. Aube:

PO Box 1293 Based upon the information provided in your submittal received 04/22/2019, the Conceptual Grading Plan and Drainage Report **is not** approved for action by the DRB for Site Plan for Building Permit. The following comments need to be addressed for approval of the above referenced project:

NM 87103

- 1. Sheet CD-1. Please remove the proposed parking structure over existing pond 8.
- 2. Sheet CD-1. Please add the information about the existing turn blocks in the wall for the emergency overflow for existing pond 8. See photo below.





CITY OF ALBUQUERQUE

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- Mayor Timothy M. Keller
- 3. Sheet CD-1. Please add a statement stating that you have physically verified the existing outfall structure in both the pond and within the ROW of Lagrima de Oro Road and have found it functioning as designed.
- 4. Please add an enlarge area for the proposed parking structure over existing pond 8. Also note how maintenance of existing pond 8 is to access the pond area.
- 5. 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 (Curtis Cherne, PE, <u>ccherne@cabq.gov</u>, 924-3420) 14 days prior to any earth disturbance.
- 6. Please provide a Drainage Covenant per Chapter 17 of the DPM for all of the existing ponds and the outfall structure within the ROW of Lagrima de Oro Road prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

PO Box 1293

- 7. Standard review fee of \$300 will be required at the time of resubmittal.
- Albuquerque If you have any questions, please contact me at 924-3995 or <u>rbrissette@cabq.gov</u>.

NM 87103 Sincerely,

Renée C. Brissette

www.cabq.gov

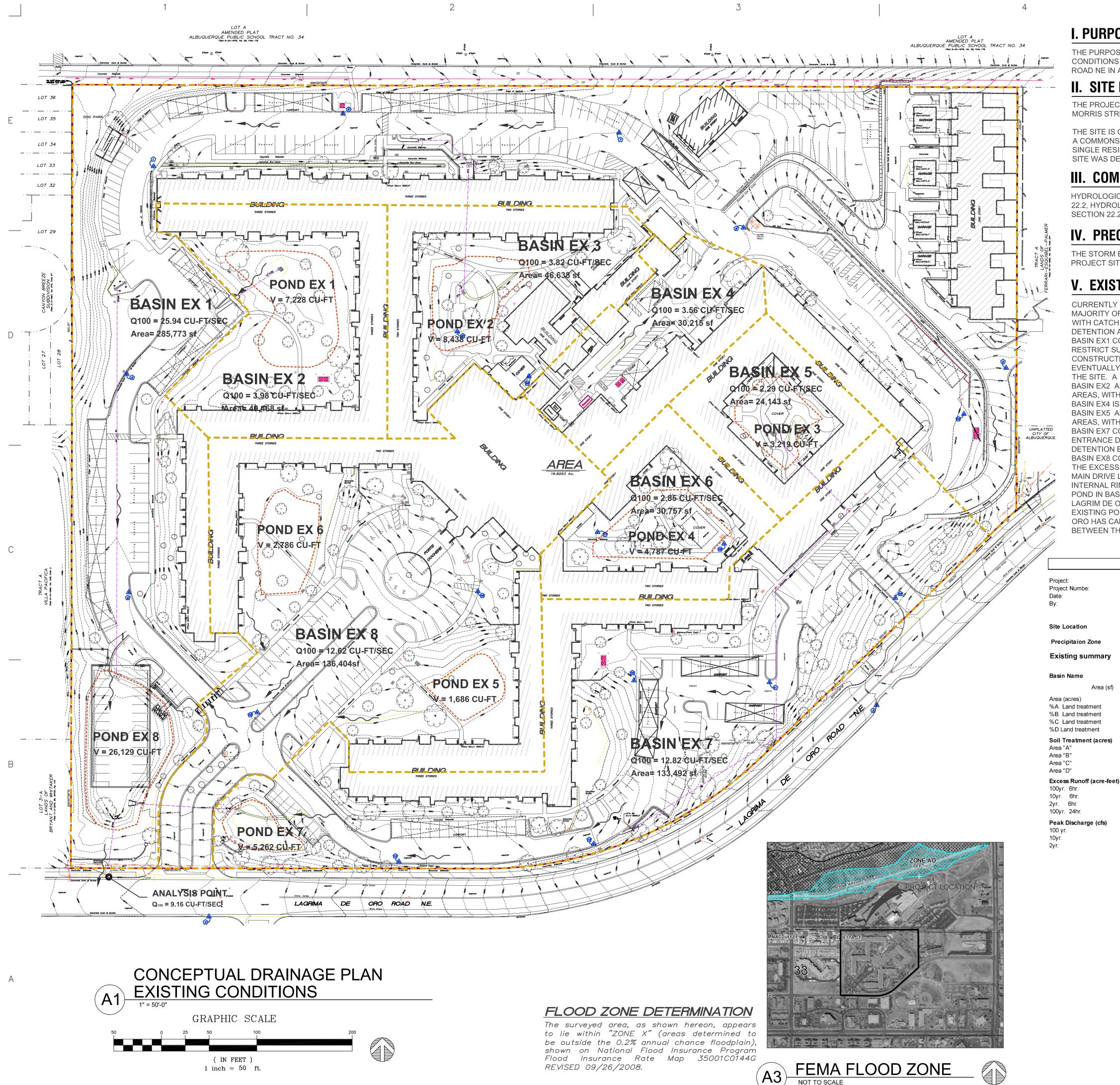
Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

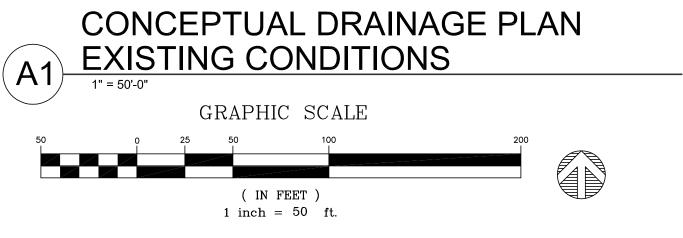


City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: La Vida Llena		
DRB#:		
Legal Description: <u>Amended Plat Land in Sec</u>		a Llena,
City Address: 10701 Lagrima de Oro Road N		
Applicant: Haverland Carver Lifestyle Group		
Address: 101501 Montgomery Boulevard NE,		
Phone#: <u>505-991-5557</u>	Fax#:	E-mail: jgomez@lavidallena.com
Other Contact: The Design Group		Contact: David Aube
Address: <u>120 Vassar Drive SE, Albuquerque</u> ,	NM 87106	
Phone#: 505-998-6430	Fax#: <u>505-242-6881</u>	E-mail: daube@designgroupnm.com
TYPE OF DEVELOPMENT: PLAT (#		
IS THIS A RESUBMITTAL? X Yes	No	
DEPARTMENT TRANSPORTATION	X HYDROLOGY/DRAINAGE	
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION	TYPE OF APPROV BUILDING PER CERTIFICATE (
 PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT AI ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING? 	X SITE PLAN FOR FINAL PLAT A PPLICSIA/ RELEASE FOUNDATION GRADING PER SO-19 APPROV PAVING PERM	R SUB'D APPROVAL R BLDG. PERMIT APPROVAL PPROVAL OF FINANCIAL GUARANTEE PERMIT APPROVAL MIT APPROVAL 'AL IT APPROVAL O CERTIFICATION
DATE SUBMITTED: <u>4-22-2019</u>	FLOODPLAIN I OTHER (SPECI	DEVELOPMENT PERMIT FY)
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:	





II. SITE DESCRIPTION AND HISTORY

THE SITE IS CURRENTLY COMPOSED OF 16.8 ACRE LOT WITH SEVERAL MUTLI-RESIDENT BUILDINGS, A COMMONS AREA AS WELL AS A SKILLED NURSING WING. THE SITE ALSO CONTAINS SEVERAL SINGLE RESIDENT TOWNHOUSES (CASITAS) AND A MAINTENANCE BUILDING. A MAJORITY OF THE SITE WAS DEISGNED AND CONSTRUCTED IN 1979 AND 1984.

III. COMPUTATIONAL PROCEDURES

HYDROLOGIC ANALYSIS WAS PERFORMED UTILIZING THE DESIGN CRITERIA BASED ON SECTION 22.2, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL RELEASED JUNE 1997. TABLES WITHIN SECTION 22.2 WERE USED TO AID IN THE STUDY OF THE SITE HYDROLOGY.

IV. PRECIPITATION

V. EXISTING DRAINAGE CONDITIONS

CURRENTLY THE SITE CONTAINS MANY WELL LANDSCAPED DETENTION AREAS. RUNOFF FROM A MAJORITY OF THE ROOFS IS DIRECTED INTO SHALLOW DEPRESSIONS IN THE LANDSCAPING AREAS WITH CATCH BASINS AND DISCHARGE PIPES THAT RESTRICT THE RUNOFF RATES FROM THE DETENTION AREAS. BASIN EX1 CONTAINS A LARGE PORTION OF THE WEST AND NORTH SIDES OF THE CAMPUS. TO RESTRICT SURFACE FLOWS AN UNDERGROUND STORM WATER CONVEYANCE SYSTEM WAS CONSTRUCTED ALONG THE WESTERN SIDE OF THE SITE. ALL RUNOFF FROM THIS BASIN EVENTUALLY IS DETAINED AND RESTRICTED IN POND #8 LOCATED AT THE SOUTH-WEST CORNER OF THE SITE. A 18" PIPE THEN DISCHARGES EXCESS RUNOFF INTO THE LAGRIMA DE ORO ROAD ROW. BASIN EX2 AND EX3 ARE FIRST ROUTED THROUGH A PONDING AREA WITHIN THE LANDSCAPING AREAS, WITH OVERFLOW ENTERING THE ROADWAY IN BASIN EX1. BASIN EX4 IS THE SERVICE YARD WITH EXCESS RUNOFF ENTERING THE ROADWAY IN BASIN EX1. BASIN EX5 AND EX6 ARE FIRST ROUTED THROUGH A PONDING AREA WITHIN THE LANDSCAPING AREAS, WITH OVERFLOW ENTERING THE ROADWAY IN BASIN EX7. BASIN EX7 CONTAINS THE SOUTHERN PORTION OF THE SITE WITH A DETENTION BASIN NEAR THE ENTRANCE DRIVE FROM LAGRIMA DE ORO. THIS POND THEN DISCHARGES INTO THE LARGER DETENTION BASIN IN BASIN EX1. A 18" STORM DRAIN PIPE CONNECTS THE TWO DETENTION PONDS BASIN EX8 CONTAINS TWO SMALL PONDING AREAS WITHIN THE LANDSCAPING TO RETAIN SOME OF THE EXCESS RUNOFF BEFORE THE EXCESS SPILLS OUT THROUGH SIDEWALK CULVERTS INTO THE MAIN DRIVE LANE LEADING TOWARD LAGIMA DE ORO. A HIGH POINT EXISTING JUST SOUTH OF THE INTERNAL RING ROAD, THAT WILL DIRECT EXCESS RUNOFF FROM BASIN EX8 INTO THE DETENTION POND IN BASIN EX1. A SMALL PORTION OF THIS BASIN IS UNRESTRICTED DISCHARGE DIRECTLY INTO LAGRIM DE ORO. EXISTING PON

Precipitaion Zone

Existing summary

Area (sf) %A Land treatment %B Land treatment %C Land treatment %D Land treatment Soil Treatment (acres

Excess Runoff (acre-feet)

Peak Discharge (cfs)

I. PURPOSE AND SCOPE

THE PURPOSE OF THIS DRAINAGE PLAN IS TO PRESENT THE EXISTING AND PROPOSED DRAINAGE CONDITIONS FOR LA VIDA LLENA LIFE PLAN COMMUNITY, LOCATED AT 10701 LAGRIMA DE ORO ROAD NE IN ALBUQUERQUE. NM. THE ZONE ATLAS PAGE FOR THE SITE IS F-21-Z.

THE PROJECT SITE IS LOCATED ON THE NORTH SIDE OF LAGRIMA DE ORO ROAD NE, BETWEEN MORRIS STREET NE AND JUAN TABO BOULEVARD NE.

THE STORM EVENT USED FOR THE FOLLOWING CALCULATIONS IS THE 100YR-6HR STORM. THE PROJECT SITE IS LOCATED IN ZONE 4 (EAST OF EUBANK BOULEVARD NE).

NDING ON SITE IS 59,535 CUBIC FEET. THE OUTLET PIPE FROM PONE) 8 INTO LAGRIMA DI
PACITY TO CONVEY 18.5 CFS BEFORE THE WATER WILL BEGIN TO OV	ERTOP THE BERM
E POND AND THE PUBLIC ROW.	

Drainage Summary	
La Vida Llena	

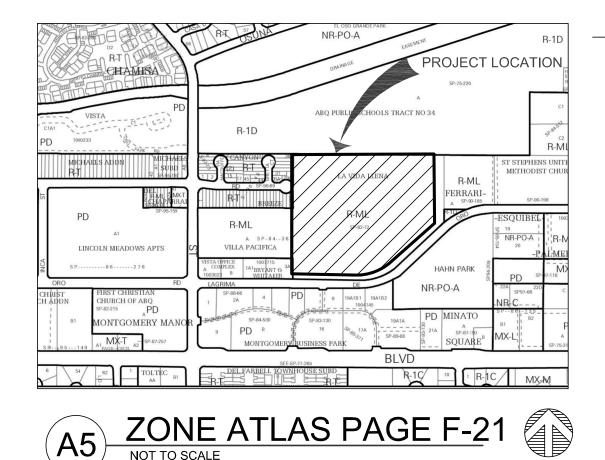
2811 04/19/19

Dave A

10701 Lagrima De Oro Road NE

4 Per Table A-1 COA DPM Section 22.2

Ex 1	Ex 2	Ex 3	Ex 4	Ex 5	Ex 6	Ex 7	Ex 8	
285773	48468	46638	30215	24143	30757	133492	136404	
6.56	1.11	1.07	0.69	0.55	0.71	3.06	3.13	
40	55	55	0	25	35	35	40	
0	0	0	5	15	0	0	0	
5	0	0	0	0	10	0	0	
55	45	45	95	60	55	65	60	
2.62	0.61	0.59	0.00	0.14	0.25	1.07	1.25	
0.00	0.00	0.00	0.03	0.08	0.00	0.00	0.00	
0.33	0.00	0.00	0.00	0.00	0.07	0.00	0.00	
3.61	0.50	0.48	0.66	0.33	0.39	1.99	1.88	
1.0087	0. 1510	0.1453	0. 1481	0.0899	0.1105	0.5097	0.4968	acre-ft
0.5893	0.0848	0.0816	0. 0941	0.0533	0.0648	0.3056	0.2938	acre-ft
0.3154	0.0432	0.0415	0. 0558	0.0290	0.0347	0.1694	0.1602	acre-ft
1.2342	0. 1822	0.1754	0. 1893	0.1107	0.1348	0.6342	0.6143	acre-ft
25.94	3.98	3.82	3.56	2.29	2.85	12.82	12.62	cfs
15.91	2.32	2.23	2.40	1.43	1.76	8.04	7.80	cfs
8.29	1.12	1.07	1.44	0.76	0.93	4.38	4.14	cfs



NOT TO SCALE



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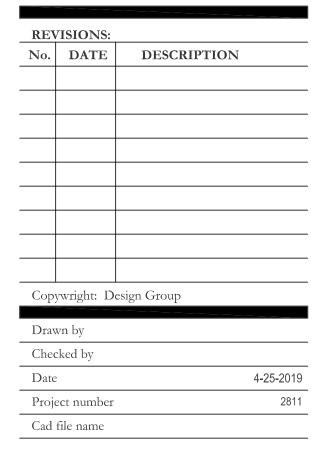
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PROJECT NAME

LA VIDA LLENA 10701 LAGRIMA DE ORO NE

HAVERLAND CARTER GROUP 10501 Montgomery Boulevard NE ALBUQUERQUE NM, 87111

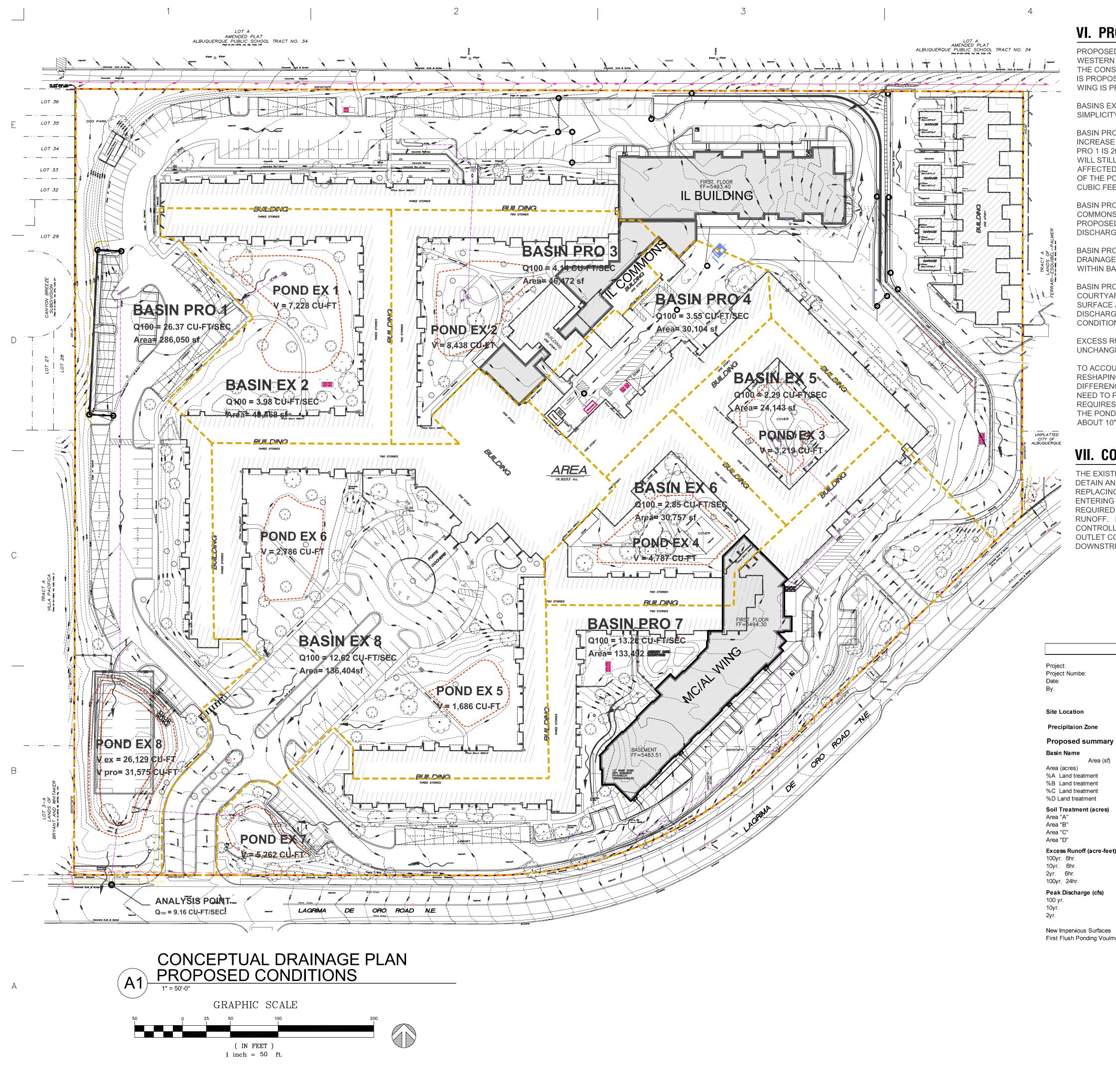


SHEET TITLE:

CONCEPTUAL DRAINAGE PLAN **EXISTING CONDITIONS**

SHEET NUMBER:





3

New Impervious Surfaces First Flush Ponding Voulme (cf)

Area (sf

VI. PROPOSED DRAINAGE CONDITIONS

PROPOSED MODIFICATIONS TO THE SITE INCLUDE CREATION OF ADDITIONAL PARKING ALONG THE WESTERN SIDE OF HT SITE TO PROVIDE OVERFLOW PARKING AND SPACES NECESSARY DURING THE CONSTRUCTION PERIOD OF THE PROJECT. A NEW MEMORY CARE AND ASSISTED LIVING WING IS PROPOSED ALONG THE SOUTH EAST PORTION OF THE SITE, AND A NEW INDEPENDENT LIVING WING IS PROPOSED ALONG THE NORTHERN PART OF THE SITE.

BASINS EX2, EX5, EX6 AND EX8 WILL NOT BE AFFECTED BY THE PROPOSED DEVELOPMENT. FOR SIMPLICITY THOSE BASINS RETAIN THE "EX" DESIGNATION.

BASIN PRO 1 CONTAINS A SMALL AMOUNT OF ADDITIONAL SQUARE FOOTAGE AND HAS A SLIGHT INCREASE IN EXCESS RUNOFF AND PEAK DISCHARGE RATE. THE PEAK RUNOFF RATE FROM BASIN PRO 1 IS 26.37 (EXISTING CONDITIONS CREATED 25.82 CFS). THE DISCHARGE FROM THIS BASIN WILL STILL PASS THROUGH POND #8 AND THE PEAK RUNOFF INTO LAGRIMA DE ORO WILL NOT BE AFFECTED AS THE DISCHARGE PIPE AND BERM HEIGHT WILL REMAIN UNCHANGED. THE VOLUME OF THE POND WILL BE MODIFIED TO CONTAIN THE NECESSARY FIRST FLUSH VOLUME OF 3503 CUBIC FEET. ALL FIRST FLUSH VOLUME WILL BE RETAINED IN POND #8 FOR THE ENTIRE SITE.

BASIN PRO 3 HAS A CHANGE IN IMPERVIOUS SURFACE DUE TO BUILDING ADDITIONS FOR THE COMMONS SPACES OF THE CAMPUS. POND EX2 HAS CAPACITY OF 8,438 CUBIC FEET WITH A PROPOSED EXCESS RUNOFF VOLUME REQUIREMENT OF 6,578 CUBIC FEET. THIS POND AND THE DISCHARGE PIPING WILL REMAIN WITHOUT ANY PROPOSED MODIFICATIONS.

BASIN PRO 4 HAS A SLIGHT DECREASE IN EXCESS RUNOFF DUE TO THE CHANGE IN AREAS OF THE DRAINAGE BASIN. THE AREA THAT WAS REMOVED FROM THIS BASIN, IS NOW ACCOUNTED FOR WITHIN BASIN PRO 1.

BASIN PRO 7 WILL CONTAIN THE NEW MEMORY CARE AND ASSISTED LIVING WING. A LARGE COURTYARD WILL BE CREATED ON THE NORTH SIDE OF THE NEW BUILDING. THE IMPERVIOUS SURFACE AREA WILL BE SLIGHTLY HIGHER (0.46 CFS) THAN HISTORIC CONDITIONS WITH A PEAK DISCHARGE DURING THE STORM EVENT (13.28 CFS AS OPPOSED TO 12.82 CFS FOR EXISTING CONDITIONS).

EXCESS RUNOFF FROM BASIN PRO 7 WILL BE ROUTED THOUGH POND 7 (WHICH WILL REMAIN UNCHANGED) AND INTO POND #8.

TO ACCOUNT FOR THE FIRST FLUSH VOLUME, POND #8 WILL NEED TO BE ENLARGED (SIMPLY BY RESHAPING THE BOTTOM TO PROVIDE ADDITIONAL CAPACITY) BY 3503 CUBIC FEET. THE DIFFERENCE BETWEEN EXISTING AND PROPOSED EXCESS RUNOFF FROM BASIN 1 AND 7 CREATE A NEED TO POND AN ADDITIONAL 0.0446 ACRE-FEET (1,943 CF) WITHIN POND #8. COMBINED THIS REQUIRES THAT POND #8 HAVE AN ADDITIONAL VOLUME OF 5,446 CUBIC FEET. THE BOTTOM OF THE POND HAS AN AREA OF APPROXIMATELY 6700 SF, AND WILL NEED TO BE DREDGED OUT ONLY ABOUT 10" TO PROVIDE THE REQUIRED VOLUME.

VII. CONCLUSIONS

THE EXISTING SITE DID NOT CONTAIN MANY ON-SITE PONDING FACILITIES THAT WILL CONTINUE TO DETAIN AND DELAY THE PEAK RUNOFF FROM THE SITE. THE PROPOSED DEVELOPMENT WILL BE REPLACING PARKING LOTS FOR BUILDINGS AND WILL HAVE A MINIMAL INCREASE IN PEAK RUNOFF ENTERING THE PONDING AREAS. THE LOWEST POND WILL BE ENLARGED TO PROVIDE THE REQUIRED VOLUME TO RETAIN THE FIRST FLUSH VOLUME AS WELL AS THE INCREASE IN EXCESS RUNOFF. DISCHARGE POINTS FROM THE SITE WILL MATCH HISTORIC AS THE DISCHARGE IS CONTROLLED BY THE OUTLET CONDITIONS BEFORE DISCHARGING INTO THE PUBLIC ROW. THIS OUTLET CONDITION WILL NOT BE MODIFIED BY THE PROPOSED DEVELOPMENT. CAPACITIES OF DOWNSTREAM SYSTEMS WOULD NOT BE AFFECTED BY THE PROPOSED DEVELOPMENT.

Drainage Summary

La Vida Llena 2811 04/19/19

Dave A

10701 Lagrima De Oro Road NE

4 Per Table A-1 COA DPM Section 22.2

Pro 1 286050 6.57 38 0 5 57	Ex 2 48468 1.11 55 0 0 45	Pro 3 46472 1.07 45 0 0 55	Pro 4 30104 0.69 0 5 0 95	Ex 5 24143 0.55 25 15 0 60	Ex 6 30757 0.71 35 0 10 55	Pro 7 133492 3.06 30 0 0 70	Ex 8 136404 3.13 40 0 0 60	
2.50 0.00 0.33 3.74	0.61 0.00 0.00 0.50	0.48 0.00 0.00 0.59	0.00 0.03 0.00 0.66	0.14 0.08 0.00 0.33	0.25 0.00 0.07 0.39	0.92 0.00 0.00 2.15	1.25 0.00 0.00 1.88	
1.0298 0.6053 0.3266 1.2637	0.1510 0.0848 0.0432 0.1822	0.1611 0.0938 0.0502 0.1978	0.1475 0.0938 0.0556 0.1886	0.0899 0.0533 0.0290 0.1107	0.1105 0.0648 0.0347 0.1348	0.5332 0.3236 0.1821 0.6673	0.4968 0.2938 0.1602 0.6143	acre-ft acre-ft acre-ft acre-ft
26.37 16.28 8.58	3.98 2.32 1.12	4.14 2.51 1.30	3.55 2.39 1.44	2.29 1.43 0.76	2.85 1.76 0.93	13.28 8.46 4.70	12.62 7.80 4.14	cfs cfs cfs
48290 1770.6	0 0.0	10416 381.9	0 0.0	0 0.0	0 0.0	36839 1350.8	0 0.0	



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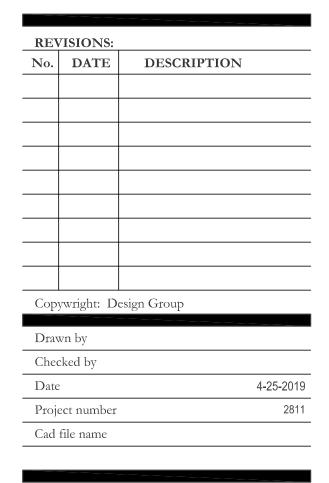
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PROJECT NAME

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HAVERLAND CARTER GROUP 10501 Montgomery Boulevard NE ALBUQUERQUE NM, 87111

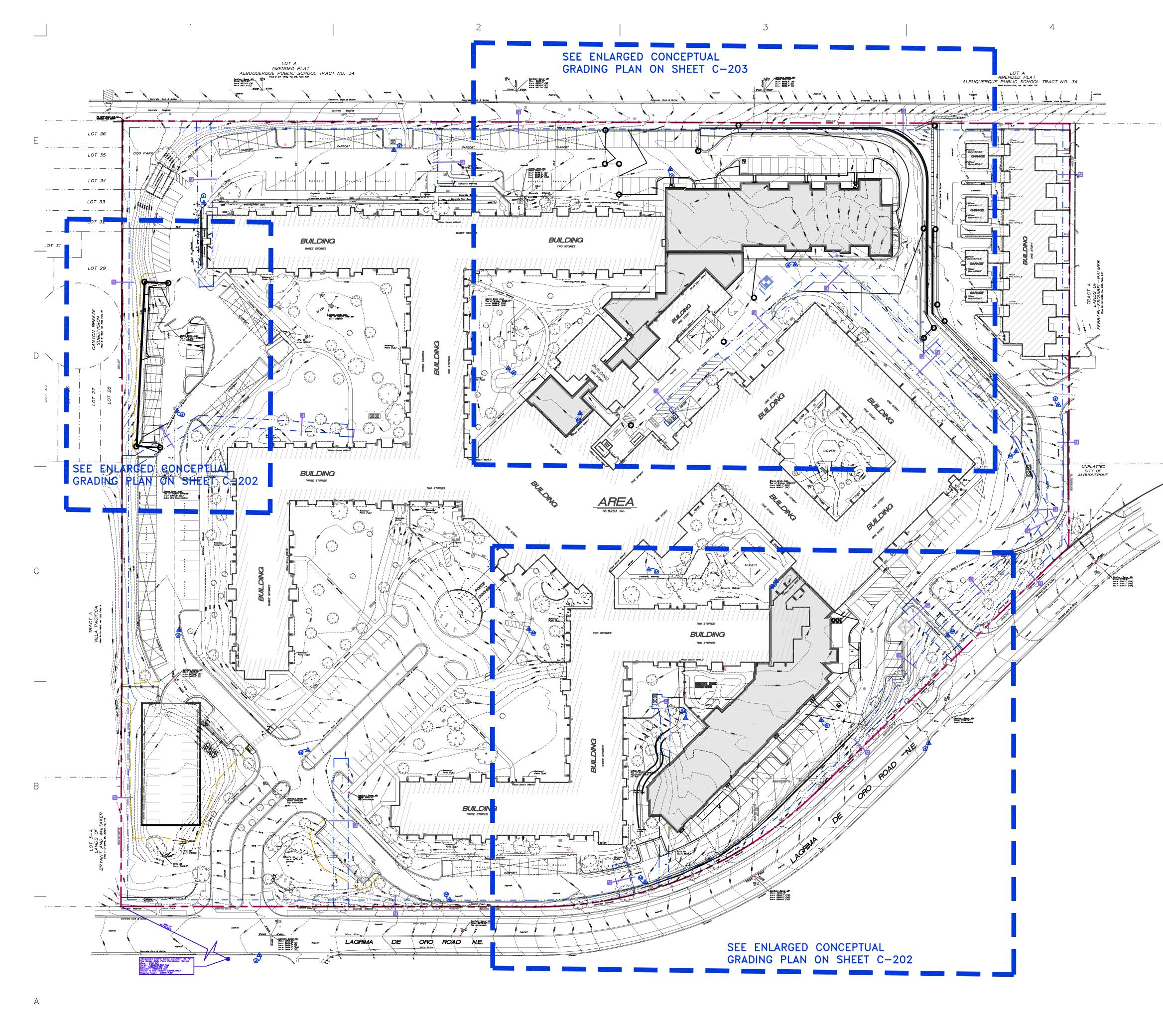


SHEET TITLE:

CONCEPTUAL DRAINAGE PLAN

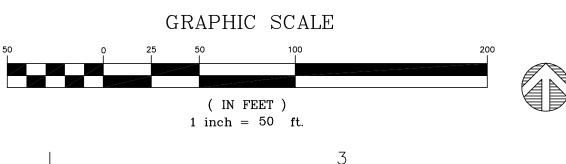
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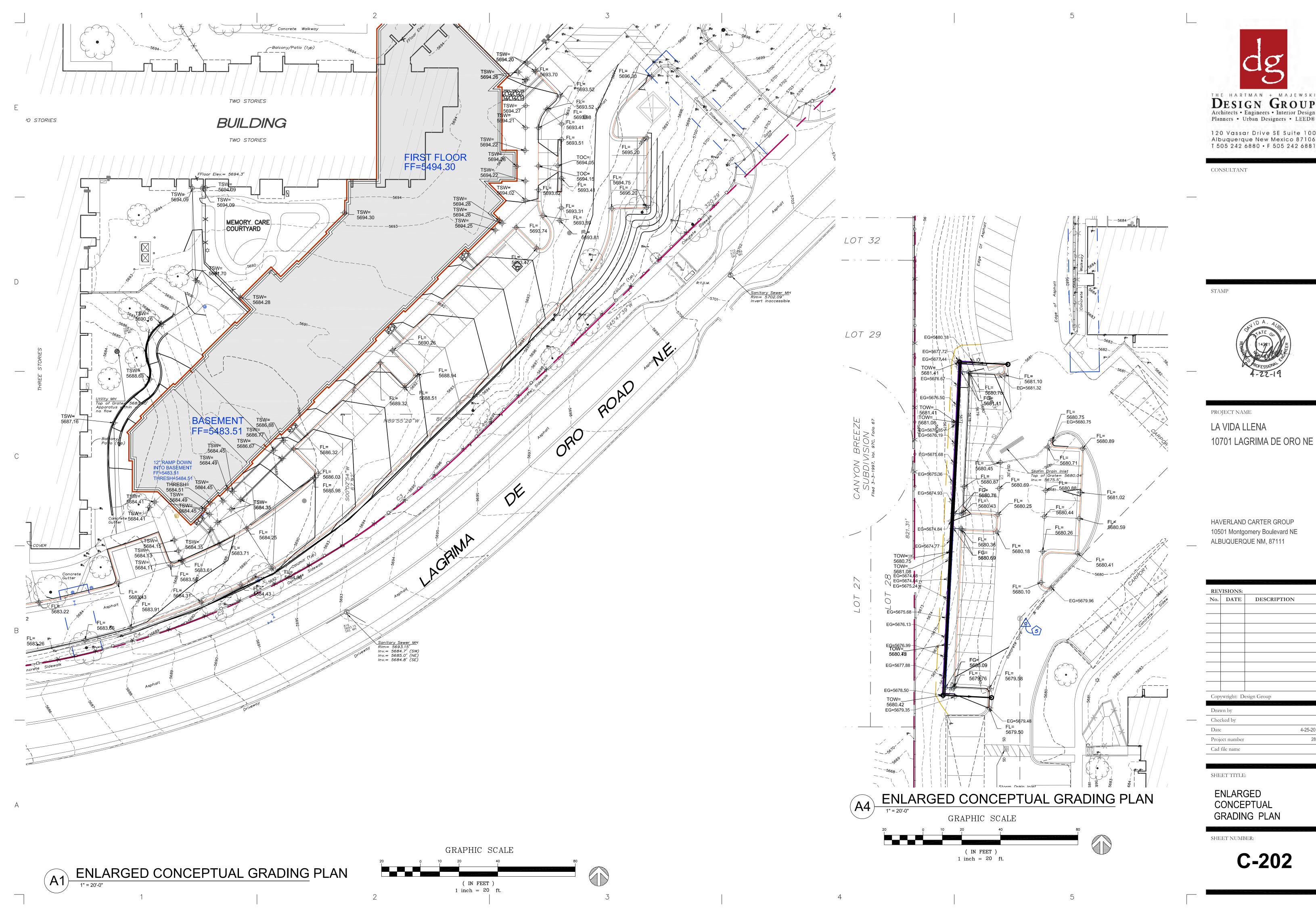
No.	VISIONS: DATE	DESCRIPTION
Сор	ywright: D	esign Group
Drav	wn by	
Che	cked by	
Date	2	4-25-201
Proj	ect number	28
Cad	file name	

OVERALL CONCEPTUAL GRADING PLAN

SHEET NUMBER:

C-201

5





4-25-2019

2811

