CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

October 25, 2017

Robert Fierro, P.E. Fierro & Company 5508 Costa Uerde Rd. NW Albuquerque, NM, 87120

RE: Plaza Hacienda at Old Town Phase II

Grading and Drainage Plan Stamp Date: 10/24/17 Hydrology File: J13D037

Dear Mr. Fierro:

PO Box 1293 Based upon the information provided in your submittal received 10/24/2017, the Grading

Plan is approved for Building Permit.

Albuquerque Please attach a copy of this approved plan in the construction sets for Building Permit

processing. Prior to Certificate of Occupancy release, Engineer Certification per the DPM

checklist will be required.

NM 87103 If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gpv.

www.cabq.gov Sincerely,

Renée Christina Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

Planning Department



COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: ____

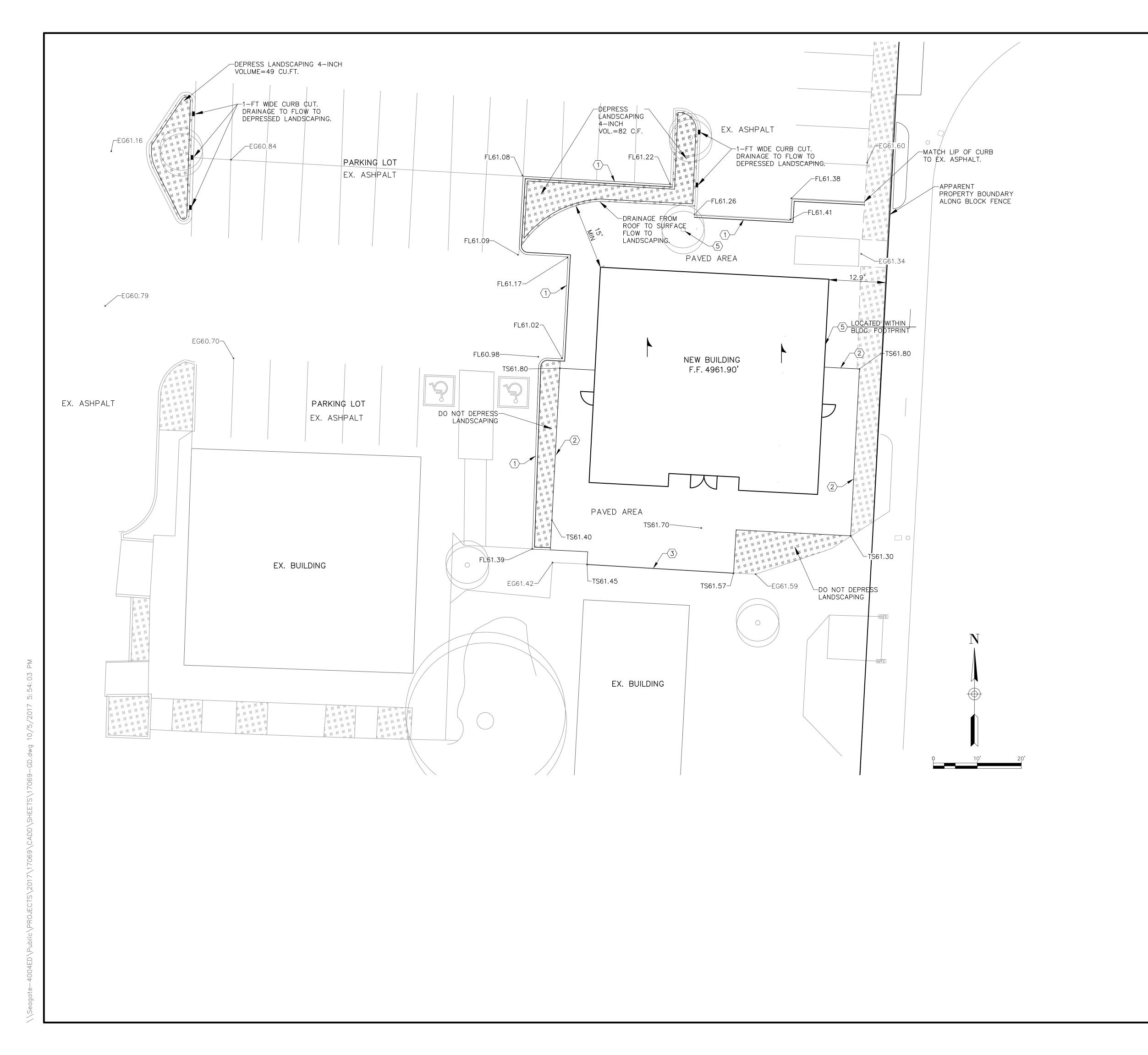
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

| Project Title: Plaza Hacienda at Old Town Phase II | Building Permit #: | City Drainage #: |
|--|---------------------------------------|---|
| DRB#: EPC#: | _ | Work Order#: |
| Legal Description: Block B Casa De Armijo & Plaza Hacienda | | |
| City Address: 1919 Old Town Rd NW, Albuquerque, NM 87104 | | |
| Engineering Firm: Fierro & Company, LLC | | Contact: Robert Fierro |
| Address: 5508 Costa Uerde Rd. NW, Albuquerque, NM 87120 | | |
| Phone#: (505) 352-8930 Fax#: | | E-mail: robertfierro@fierrocompany.com |
| Owner: Old Town Plaza, LLC | | Contact: Drew Jones |
| Address: 1919 Old Town Rd NW Suite 1, Albuquerque, NM 87120 | | |
| Phone#: 760-207-8734 Fax#: | | E-mail: djoneslaw@jtbadvisors.com |
| Architect: RBA -Architecture Planning Design | | Contact: Doug Gallagher |
| Address: 1104 Park Ave. SE Albuquerque, NM 87102 | | |
| Phone#: (505) 242-1859 Fax#: | | E-mail: doug@rba81.com |
| Other Contact: | | Contact: |
| Address: | | |
| N " | | Г 1 |
| DEPARTMENT: × HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL | X BUILDING P | APPROVAL/ACCEPTANCE SOUGHT: ERMIT APPROVAL E OF OCCUPANCY |
| MS4/ EROSION & SEDIMENT CONTROL | CERTIFICAT | L of occuranci |
| TYPE OF SUBMITTAL: | PRELIMINAI | RY PLAT APPROVAL |
| ENGINEER/ ARCHITECT CERTIFICATION | SITE PLAN I | FOR SUB'D APPROVAL |
| CONGERTIAL C & D DI AN | | FOR BLDG. PERMIT APPROVAL |
| CONCEPTUAL G & D PLAN X GRADING PLAN | FINAL PLAT | |
| X GRADING PLAN DRAINAGE MASTER PLAN | · · · · · · · · · · · · · · · · · · · | SE OF FINANCIAL GUARANTEE |
| DRAINAGE REPORT | | N PERMIT APPROVAL |
| CLOMR/LOMR | SO-19 APPR | ERMIT APPROVAL |
| | PAVING PE | |
| TRAFFIC CIRCULATION LAYOUT (TCL) | · · · · · · · · · · · · · · · · · · · | AD CERTIFICATION |
| TRAFFIC IMPACT STUDY (TIS) WORK ORDER | | |
| EROSION & SEDIMENT CONTROL PLAN (ESC) | CLOMR/LON | |
| OTHER (SPECIFY) | PRE-DESIGN | |
| IS THIS A RESUBMITTAL?: X Yes No | OTHER (SPE | CCIFY) |
| DATE SUBMITTED: October 24, 2017 By: Fierro & Co | | |
| | | |



GENERAL GRADING NOTES:

1. THIS PLAN RECOMMENDS POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES TO PROHIBIT PONDING OF RUNOFF WHICH MAY CAUSE STRUCTURAL SETTLEMENT. FUTURE ALTERATION OF GRADES ADJACENT TO THE PROPOSED STRUCTURES IS NOT RECOMMENDED.

2. PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF ALBUQUERQUE, NEW MEXICO.

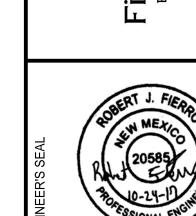
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF OR OBTAINING EXCESS CUT OR FILL MATERIAL REQUIRED FOR FINAL GRADE.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH NEW MEXICO ONE CALL PRIOR EXCAVATION.

5. DO NOT DEPRESS LANDSCAPING WITHIN 15-FEET FROM BUILDING FOUNDATION.

KEYED NOTES:

- 1 CONSTRUCT 6" RAISED CURB & GUTTER.
- 2 CONSTRUCT TURNDOWN SIDEWALK W/ 6" FROM TOP OF SIDEWALK TO FG.
- 3 CONSTRUCT TURNDOWN SIDEWALK AT ACCESSIBLE
- 4 CONSTRUCT ASPHALT PAVEMENT.
- (5) REMOVE EX. TREE AND RE-PLANT NEW TREE WITHIN NEW DEPRESSED LANDSCAPING.



X 0 A S EN PH,

LEGEND

• • • —> FLOW PATH PROPOSED RETAINING WALL — · · · — · · — FLOWLINE — 3905 ___ EXISTING MAJOR CONTOUR - - -05_ ___ EXISTING MINOR CONTOUR - PROPOSED MINOR CONTOUR

FINISHED GRADE

FLOW LINE TOP OF ASPHALT TBC TOP BACK OF CURB TOP OF CURB TOP OF CONCRETE TOP OF SIDEWALK TOP OF WALL BOTTOM OF WALL ROOF FLOW DIRECTION



EXISTING TREE

BENCH MARK CITY OF ALBUQUERQUE GEODETIC CONTROL "12-J13" NAVD 1988 ELEVATION 4957.50' LOCATED AT THE NW CORNER OF 14TH STREET AND LOMAS

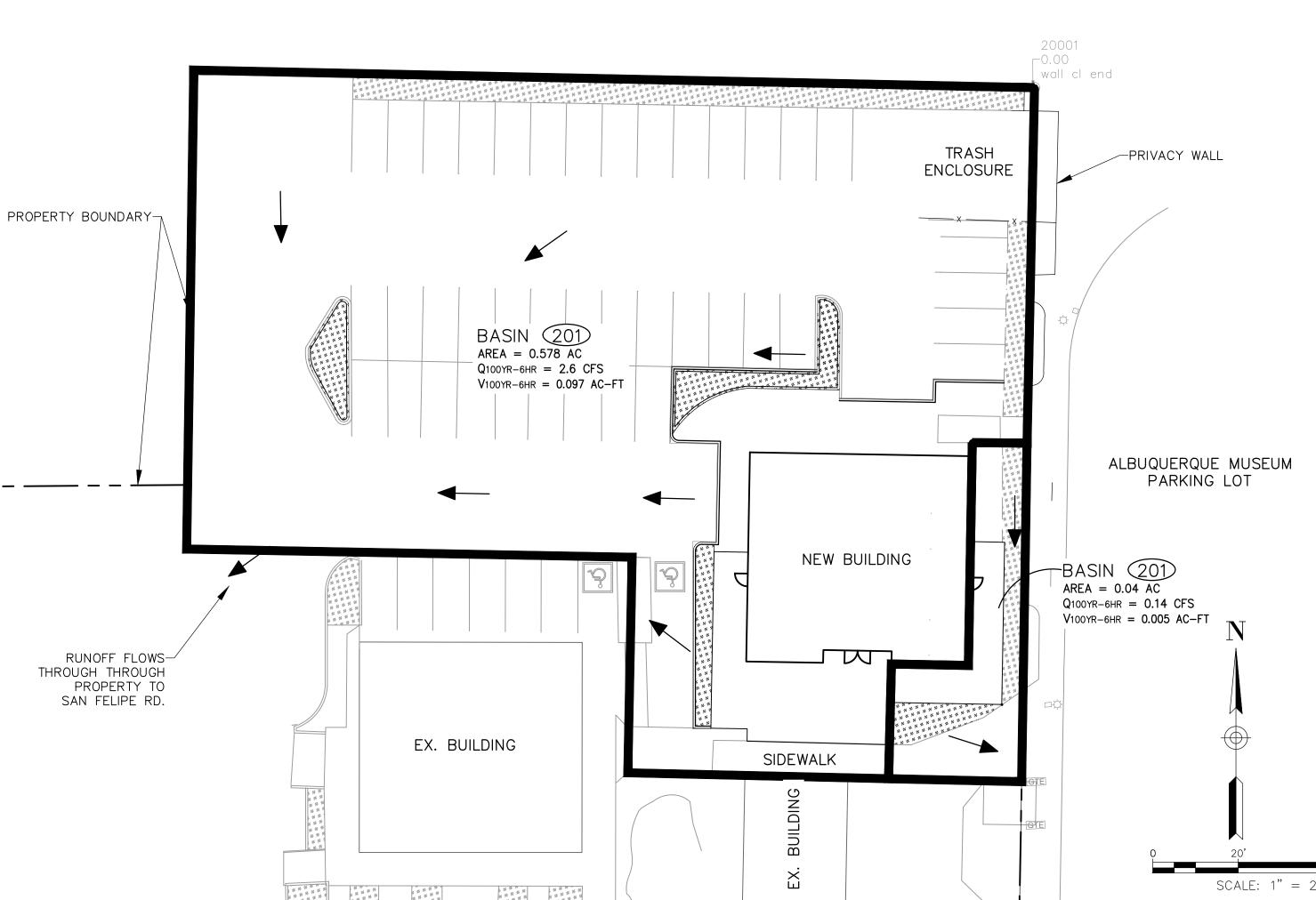
PROJECT NO: DESIGNED BY: DRAWN BY: CHECKED BY: OCT 2017 SHEET TITLE

C-1

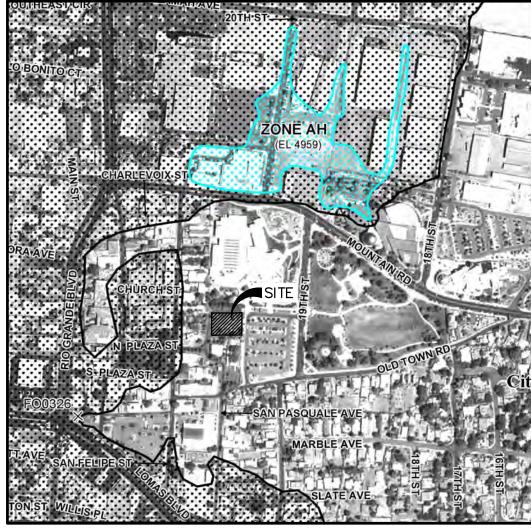
PHASE II

GRADING

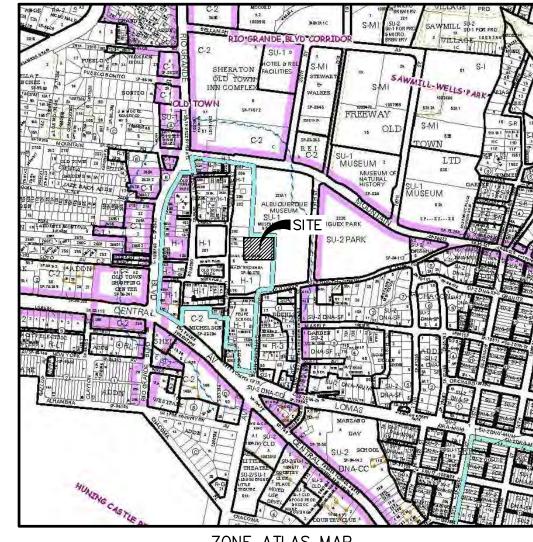
PLAN



2 PROPOSED BASIN MAP



FLOOD INSURANCE RATE MAP
MAP NO. 35001C0114H



PAGE J-13-Z

Introduction

Phase ii is being proposed, which includes a 2,500 sq.ft. retail building. The site is located in the Casa De Armijo & Plaza Hacienda Subdivision, which is within the historic Old Town. Phase I was completed earlier this year. The project site for Phase II is not in a Flood Plain. The purpose of this Grading & Drainage Plan is to 1) provide hydrologic and hydraulic analysis of the allowable and proposed condition, 2) satisfy the first flush requirement, and 3) seek building approval.

Methodology

Hydrologic procedures presented in the Hydrology Section of the DMP, Section 22.2, revised April 7, 1993 were followed.

Existing Condition

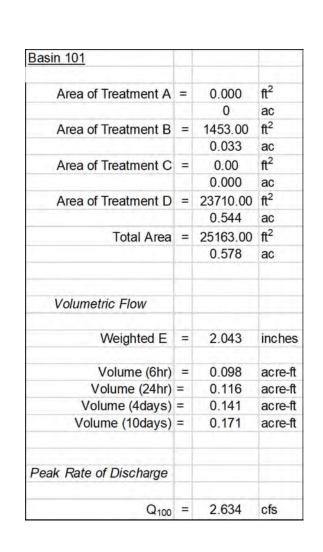
Phase II is within said Lot B which is approximately 2.2 acres; however, Phase II drainage analysis only covers a portion of said Lot B with approximately 0.60 acres. Phase II site does not receive offsite runoff. Refer to this sheet for the surface flows of the surrounding lots. Runoff from Sub-basin 101 is conveyed through said Lot B and discharges to San Felipe Rd. Runoff from Sub-basin 102 discharges to the Albuquerque's Museum's parking lot, which then drains to Old Town Rd. Hydrologic analysis for the existing condition is included on this Sheet.

Proposed Condition

Phase II proposes a 2,500 sq.ft. retail building. The proposed drainage pattern will not alter from the existing. Phase two does not adversely impact drainage to the site nor offsite basins. Depressed landscaping of 3.5-inches to 4-inches is proposed to treat the first flush. Refer to Sheet C-1 and this sheet for location of the depressed landscaping. Refer to this sheet for the first flush calculations. Hydrologic analysis for the proposed condition is included on this Sheet.

Conclusio

The City's requirements have been satisfied under this grading & drainage plan. The contractor shall use this plan (Sheet C-1 and Sheet C-2), and will need a drainage certification in order to obtain a Close-out. This drainage report seeks approval for building permit.



| Basin 102 | Ц | | |
|------------------------|---|---------|-----------------|
| Area of Treatment A | = | 0.000 | ft ² |
| | | 0 | ac |
| Area of Treatment B | = | 460.00 | ft ² |
| | | 0.011 | ac |
| Area of Treatment C | = | 0.00 | ft ² |
| | | 0.000 | ac |
| Area of Treatment D | = | 1050.00 | ft ² |
| | | 0.024 | ac |
| Total Area | = | 1510.00 | ft ² |
| | | 0.035 | ac |
| Volumetric Flow | | | |
| Weighted E | = | 1.712 | inches |
| Volume (6hr) | = | 0.005 | acre-ft |
| Volume (24hr) | = | 0.006 | acre-ft |
| Volume (4days) | = | 0.007 | acre-ft |
| Volume (10days) | = | 0.008 | acre-ft |
| Peak Rate of Discharge | | | |
| Q ₁₀₀ | = | 0.137 | cfs |

| Basin 201 | | | |
|------------------------|---|----------|-----------------|
| Area of Treatment A | = | 0.000 | ft ² |
| | | 0 | ac |
| Area of Treatment B | = | 1824.00 | ft ² |
| | | 0.042 | ac |
| Area of Treatment C | = | 0.00 | ft ² |
| | | 0.000 | ac |
| Area of Treatment D | = | 23339.00 | ft ² |
| | | 0.536 | ac |
| Total Area | = | 25163.00 | ft ² |
| | | 0.578 | ac |
| Volumetric Flow | | | |
| Weighted E | = | 2.023 | inches |
| Volume (6hr) | = | 0.097 | acre-ft |
| Volume (24hr) | = | 0.115 | acre-fl |
| Volume (4days) | = | 0.140 | acre-fl |
| Volume (10days) | = | 0.169 | acre-fl |
| Peak Rate of Discharge | | | |
| Q ₁₀₀ | = | 2.614 | cfs |

| Basin 202 | | | |
|------------------------|---|---------|-----------------|
| Area of Treatment A | = | 0.000 | ft ² |
| | | 0 | ac |
| Area of Treatment B | = | 474.00 | ft ² |
| | | 0.011 | ac |
| Area of Treatment C | = | 0.00 | ft ² |
| | | 0.000 | ac |
| Area of Treatment D | = | 1035.00 | ft ² |
| | | 0.024 | ac |
| Total Area | = | 1509.00 | ft ² |
| | 4 | 0.035 | ac |
| Volumetric Flow | | | |
| Weighted E | = | 1.699 | inches |
| Volume (6hr) | = | 0.005 | acre-ft |
| Volume (24hr) | = | 0.006 | acre-ft |
| Volume (4days) | = | 0.007 | acre-ft |
| Volume (10days) | = | 0.008 | acre-ft |
| Peak Rate of Discharge | | | |
| Q ₁₀₀ | = | 0.136 | cfs |

FIRST FLUSH STORAGE:

DEPRESSED LANDSCAPING

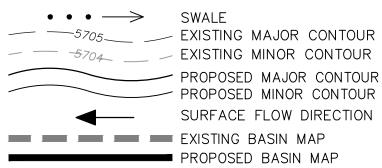
NEW LAND TREATMENT "D" ROUTED THROUGH DEPRESS LANDSCAPING: TOTAL AREA = 4,300 SQ.FT.

WATER QUALITY STORAGE NEEDED=4,300 SQ.FT.*(.34")*(1'/12")=121.8 CU.FT.

WATER QUALITY STORAGE DESIGNED = 49 CU.FT. + 82 CU.FT= 131 CU.FT.

WQDESIGNED (131 CU.FT.) > WQNEEDED (121.8 CU.FT.)





DEPRESSED LANDSCAPING 3"-4"



EXISTING BASIN



FierroßComp
Engineering | surve
5508 COSTA UERDE RD
ALBUQUERQUE, NEW MEXICO
PH (505) 352-893



PLAZA HACIENDA ADDITION AT (
PHASE II NEW SITE
ALBUQUERQUE, NEW ME)

PROJECT NO: 10/5/2017
DESIGNED BY: RJF
DRAWN BY: RJF
CHECKED BY: RJF
DATE: OCT 2017
SHEET TITLE

DRAINAGE PLAN

ET NO: **C-2**