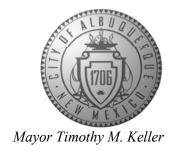
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



January 20, 2023

David Thompson, PE Thompson Engineering Consultants, Inc. PO Box 65760 Albuquerque, NM 87193

RE: 1407 4th St. SW

Grading & Drainage Plans Engineer's Stamp Date: 12/15/22 Hydrology File: L14D063A

Dear Mr. Thompson:

PO Box 1293

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 01/06/2023, the Grading & Drainage Plans are approved for Building Permit and Grading Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

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 (Dough 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

Renée C. Brissette



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title:	Building P	ermit #: Hydrology File #:
		Work Order#:
Legal Description:		
City Address:		
Applicant:		Contact:
Address:		
		E-mail:
Owner:		Contact:
Address:		
		E-mail:
TYPE OF SUBMITTAL: PLA	T (# OF LOTS)	RESIDENCE DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL?:	Yes	No
DEPARTMENT: TRAFFIC/ T	RANSPORTATION _	HYDROLOGY/ DRAINAGE
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERT PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAY TRAFFIC IMPACT STUDY (TI OTHER (SPECIFY) PRE-DESIGN MEETING?	Γ PERMIT APPLIC OUT (TCL) S)	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 SURMITTED:	Bv·	

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:_____

City of Albuquerque Planning Department Development Review Services **HYDROLOGY SECTION APPROVED** 01/20/23 Brisselle L14D063A scout ARCHITECTURE + DESIGN ARCHITECT/ ENGINEER

407

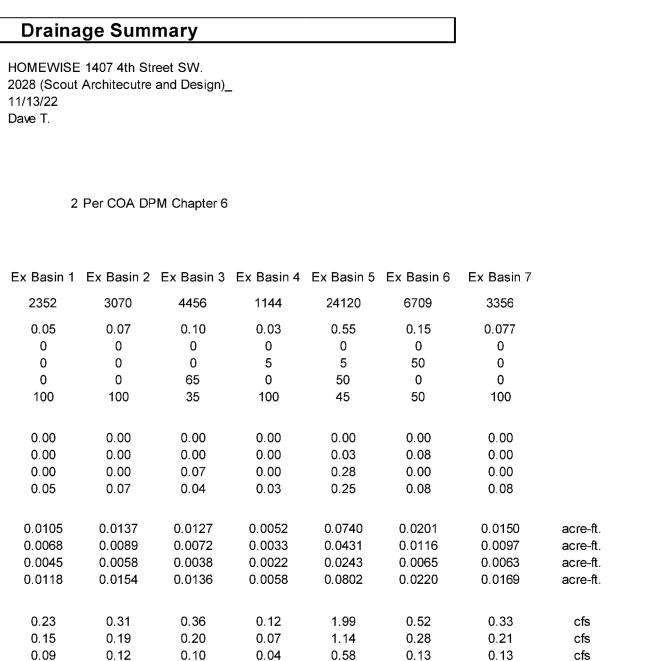
PERMIT SET

DATE REVISION

PROJECT NO

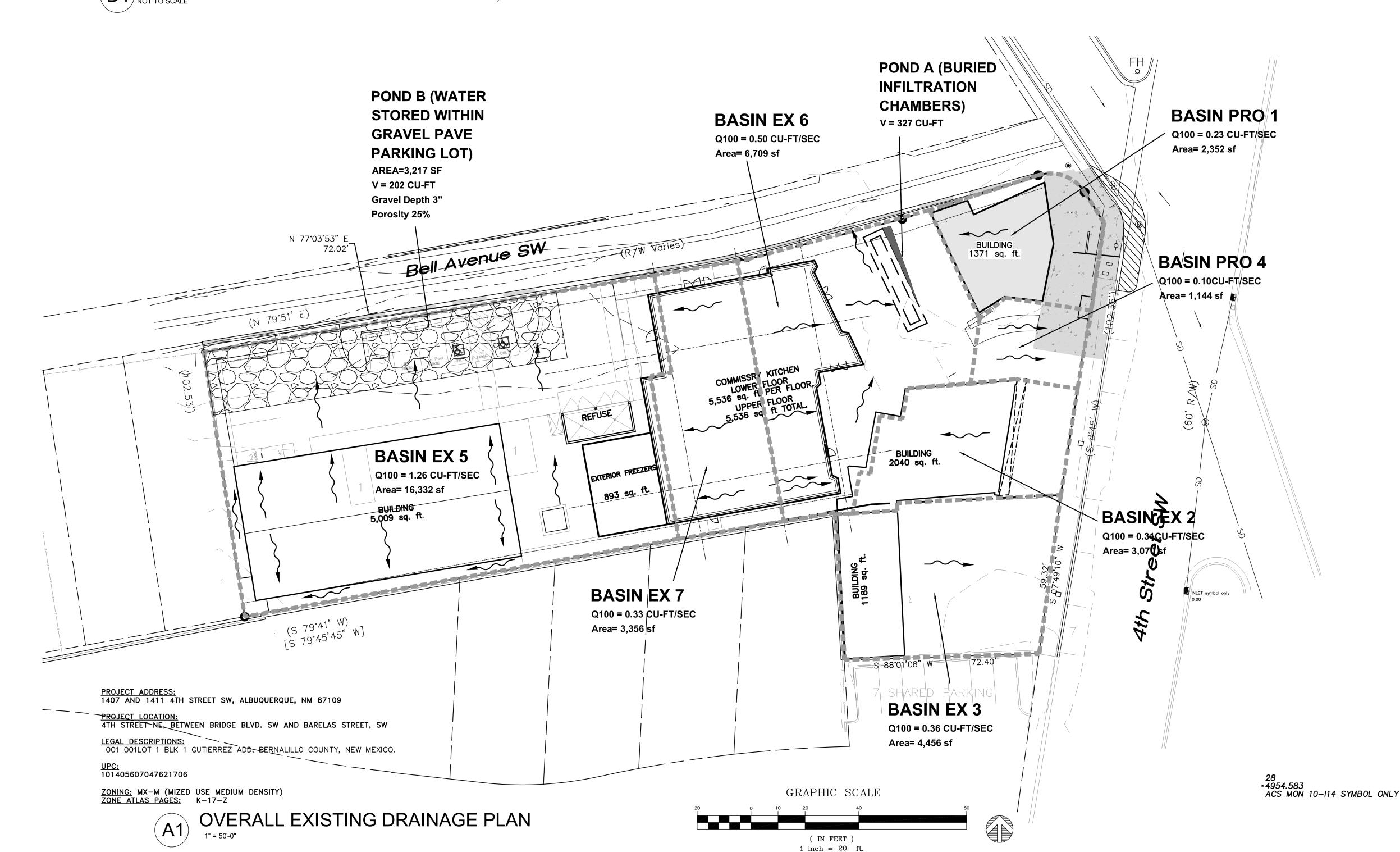
EXISTING DRAINAGE PLAN

SHEET NO.



FLOOD ZONE DETERMINATION

The surveyed area, as shown hereon, appears to lie within "ZONE X" (areas determined to be outside the 0.2% annual chance floodplain), shown on National Flood Insurance Program Flood Insurance Rate Map 35001C0334G REVISED 09/26/2008.



Project Number:

Site Location

Basin Name

Area (acres)

Area "A"

Area "B"

Area "D"

100yr. 6hr.

10yr. 6hr.

2yr. 6hr.

100 yr.

10yr.

100yr. 24hr.

Peak Discharge (cfs)

%A Land treatment

%B Land treatment %C Land treatment

%D Land treatment

Excess Runoff (acre-feet)

NR-GM

ZONE ATLAS PAGE L-14-Z

BĀRELAS

NDUSTRIAL

NR-GM

MX-H

NR-GM

BARELAS INDUSTRIAL

Precipitaion Zone

Existing summary

I. PURPOSE AND SCOPE

THE PURPOSE OF THIS DRAINAGE PLAN IS TO PRESENT THE EXISTING AND PROPOSED DRAINAGE CONDITIONS FOR REPLACEMENT OF THE BUILDING LOCATED AT THE NE CORNER OF THE PROJECT SITE. THE NEW BUILDING IS LOCATED AT 1407 4TH STREET SW, IN ALBUQUERQUE. THE ZONE ATLAS PAGE FOR THE SITE IS L-14-Z.

II. SITE DESCRIPTION AND HISTORY

THE PROJECT SITE IS LOCATED ON THE WEST SIDE OF4TH STREET SW. BETWEEN BELL AVENUE SW. AND BRIDGE BOULEVARD SW. THE SITE IS CURRENTLY UNDER CONSTRUCTION FOR THE COMMISSARY KITCHEN LOCATED AT 1411 4TH STREET SW. DURING A REMODEL PROJECT FOR 1407 4TH STREET, STRUCTURAL DEFICIENCIES WERE IDENTIFIED, WARRANTING THE DEMOLITION OF THE STRUCTURE.

III. COMPUTATIONAL PROCEDURES

HYDROLOGIC ANALYSIS WAS PERFORMED UTILIZING THE DESIGN CRITERIA BASED ON CHAPTER 6, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL RELEASED 2020. TABLES WITHIN CHAPTER 6, WERE USED TO AID IN THE STUDY OF THE SITE HYDROLOGY.

IV. PRECIPITATION

THE STORM EVENT USED FOR THE FOLLOWING CALCULATIONS IS THE 100YR-6HR STORM. THE PROJECT SITE IS LOCATED IN ZONE 2 (EAST OF RIO GRANDE, AND WEST OF SAN MATEO).

V. EXISTING DRAINAGE CONDITIONS

CURRENTLY THE SITE IS BEING REDEVELOPED TO INCLUDE A NEW 10,000 SF COMMISSARY KITCHEN FACILITY FOR HOMEWISE. OTHER MODIFICATIONS TO THE SITE WERE INCLUDED IN THE COMMISSARY KITCHEN PROJECT, THAT INCLUDED NEW PARKING AREAS, REFUSE COLLECTION, AND PEDESTRIAN CIRCULATION. THIS DRAINAGE STUDY IS A MODIFICATION OF THE ONE PREPARED BY THE HARTMAN + MAJEWSKI DESIGN GROUP (COA HYDROTRANS NUMBER L14D063).

PER THE PRIOR REPORT THE ALLOWABLE DISCHARGE FROM THE SITE IS AS FOLLOWS: NORTHERN PARCEL 2.65 CFS AND THE SOUTHERN PARCEL 0.36 CFS.

WE HAVE NUMBERED THE BASINS TO MATCH THE PRIOR REPORT. ONLY BASINS EX BASIN #1, AND #4 ARE AFFECTED BY THIS PROJECT.

> onsultants, Inc. tecnm@yahoo.com

P.O. BOX 65760

PHONE: (505) 271-2199 ALBUQUERQUE, NM 87 193 FAX: (505) 830-9248

ARCHITECT/ ENGINEER



SHE

WARM

407

ARCHITECTURE + DESIGN

VI. PROPOSED DRAINAGE CONDITIONS

Development Review Services

HYDROLOGY SECTION

APPROVED

01/20/23 01/20/23 01/20/23 01/20/23

THE NEW BUILDING WILL REPLACE THE PRIOR BUILDING AT SOUTHWEST CORNER OF BELL AVENUE, AND 4TH STREET SW.

THIS STUDY IS REFLECTING THE MINOR CHANGES FROM THE PRIOR DRAINAGE STUDY THAT WAS PREPARED BY THE HARTMAN + MAJEWSKI DESIGN GROUP. AN UNDERGROUND INFILTRATION GALLERY WAS ALREADY SIZED FOR THE SITE AND THE PROPOSED REVISIONS WILL NOT SIGNIFICANTLY ALTER THE PEAK DISCHARGE

BASINS PRO 1, 4 AND 6 WILL BE SLIGHTLY ALTERED BY THIS PROJECT.

PROPOSED BASIN PRO 1 WILL HAVE A PEAK RUNOFF RATE OF 0.25 CFS, AND WILL DRAIN TOWARD THE WEST WHERE IT WILL BE INTERCEPTED BY THE BURIED INFILTRATION CHAMBERS. CURRENT CONDITIONS REFLECTED A PEAK RUNOFF RATE OF 0.23 CFS FOR EXISTING BASIN 1.

PROPOSED BASIN PRO 4 WILL HAVE THE HIGH POINT ADJUSTED. THIS REDUCES THE SIZE OF THE BASIN THAT DISCHARGES DIRECTLY INTO 4TH STREET SW. THE NEW PEAK FLOW RATE INTO 4TH STREET IS NOW 0.04 CFS (IN COMPARISON TO THE CURRENT CONDITIONS OF 0.10 CFS).

PROPOSED BASIN PRO 6 WILL STILL DRAIN TOWARD THE UNDERGROUND INFILTRATION GALLERY. PROPOSED CONDITIONS WILL GENERATE A PEAK DISCHARGE OF 0.53 CFS. CURRENT CONDITIONS GENERATE 0.50 CFS. THE DIFFERENCE IS THAT A PORTION OF BASIN 4 IS NOW LOCATED WITHIN BASIN 6.

THE TOTAL DISCHARGE FROM BASINS 1, 2, AND 6 COMBINE TO GENERATE A PEAK OF 1.06 CFS THAT WILL DRAIN INTO THE UNDERGROUND INFILTRATION GALLERY.

THE PRIOR DESIGN CALLED FOR 1.01 CFS AS THE PEAK FLOWRATE INTO THE INFILTRATION GALLERY. REDUCTION IN DISCHARGE DIRECTLY TO 4TH STREET CAN BE USED TO INCREASE THE ALLOWABLE DISCHARGE FROM THE INFILTRATION GALLERY. THE SIDE OF THE INFILTRATION GALLERY WILL NEED TO BE INCREASE CO CONTAIN AN ADDITIONAL 11 CUBIC FEET OF WATER. THIS CAN BE ACCOMPLISHED BY PROVIDING AN ADDITIONAL 44 CUBIC FEET OF PEA GRAVEL SURROUNDING THE CHAMBERS. THIS CAN BE ACCOMPLISHED BY WIDENING THE GRAVEL SURROUND ON THE EAST SIDE OF THE CHAMBERS AS SHOWN.

PLEASE NOT THAT AN INCREASE OF ALLOWABLE DISCHARGE INTO BELL HAS NOT BEEN USED.

VII. CONCLUSIONS

THE PRIOR PROPOSED DEVELOPMENT (AS DEFINED BY THE HARTMAN + MAJEWSKI DESIGN GROUP) WILL REDUCE THE EXCESS RUNOFF FROM THE NORTHERN PARCEL FROM 2.65 CFS TO 1.1 CFS. THE SOUTHERN PARCEL WILL REMAIN AS EXISTING AT 0.36 CFS.

THIS PROJECT FURTHER REDUCES THE FLOW INTO 4TH STREET BY 0,06 AND MAINTAINS THE OTHER DISCHARGE POINTS AND FLOW RATES FROM TEH PRIOR DRAINAGE STUDY.

THE SITE WILL DISCHARGE LESS EXCESS RUNOFF IN THE REDEVELOPED CONDITION THAT IT DOES IN THE CURRENT CONDITION.

> →onsultants, Inc. tecnm@yahoo.com

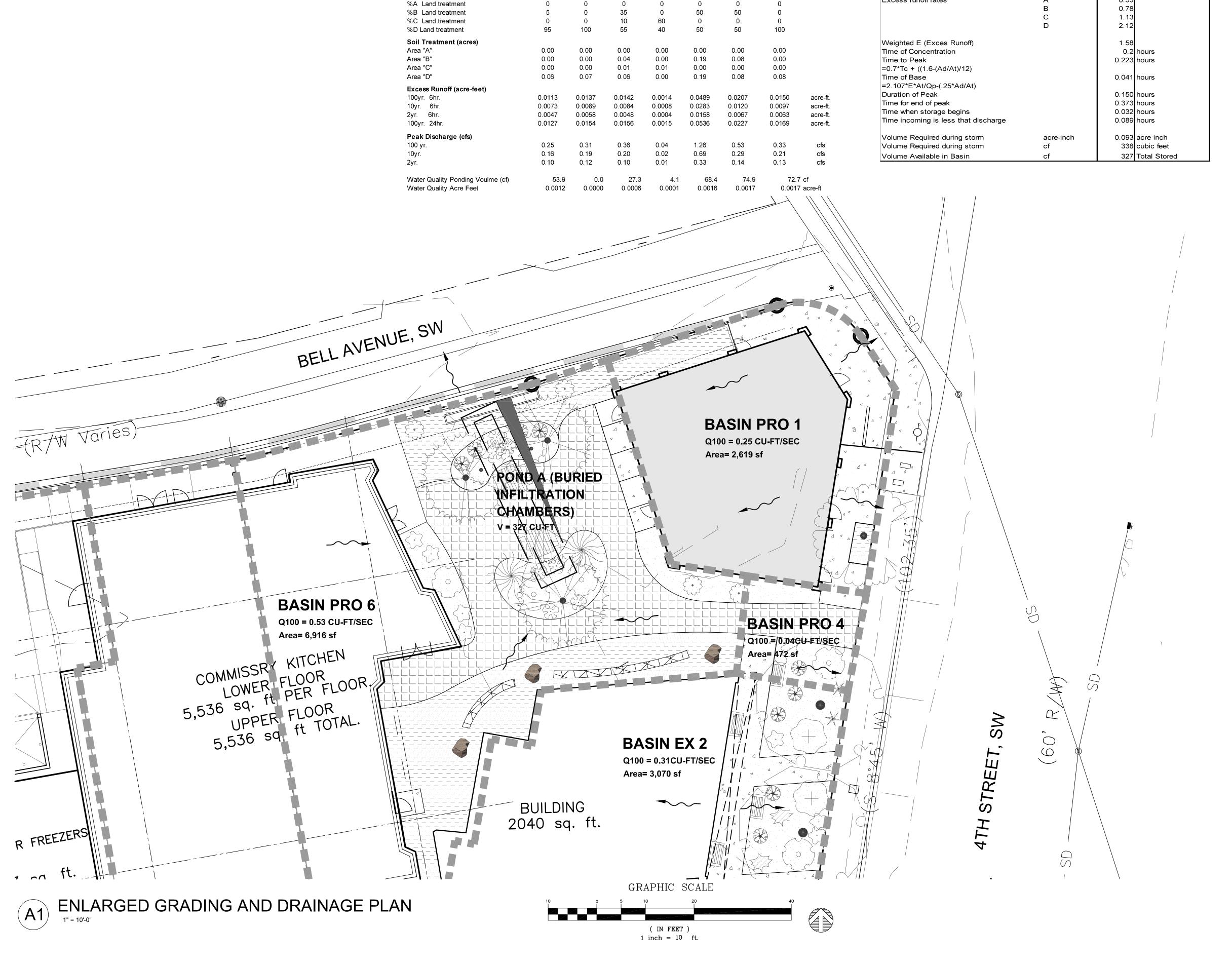
P.O. BOX 65760 PHONE: (505) 271-2199 ALBUQUERQUE, NM 87 193 FAX: (505) 830-9248

PERMIT SET REVISION DATE

PROJECT NO

PROPOSED DRAINAGE PLAN

SHEET NO.



Drainage Summary

HOMEWISE 1407 4th Street SW.

2 Per COA DPM Chapter 6

0.102

Pro Basin 1 Pro Basin 2 Pro Basin 3 Pro Basin 4 Pro Basin 5 Pro Basin 6 Pro Basin 7

0.375

2703 11/13/22

Dave T.

Project:

Date:

Project Number:

Site Location

Basin Name

Area (acres)

Precipitaion Zone

Proposed summary

Pond Routing and Volumes

Incoming Flow Rate

Hyrdology Zone

Area Total

Area Type A

Area Type B

Area Type C

Area Type D Impervious

Excess runoff rates

Allowable Discharge Rate

Pond A Basin 1

Qout

Αt

Aa

Ab

1.2 Total

2 per Figure A-1

0.060 acres

discharge

GRAPHIC SCALE

(IN FEET) 1 inch = 10 ft.

A1 SITE GRADING PLAN

 T_{hompson} $E_{\text{ngineering}}$ $C_{\text{onsultants, Inc.}}$ tecnm@yahoo.com

P.O. BOX 65760 PHONE: (505) 271-2199 ALBUQUERQUE, NM 87193 FAX: (505) 830-9248 SCOUT ARCHITECTURE + DESIGN

ARCHITECT/ ENGINEER

9677

9677

1407 4TH STREET SW Albuquerque, nm 87102

PERMIT SET

REVISION DATE

 DATE
 12.15.22

 PROJECT NO
 2028

SITE GRADING PLAN

SHEET NO.

C201