

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

October 4, 2022

Ron Hensley, PE
The Group
300 Branding Iron Rd. SE
Rio Rancho, NM 87124

**RE: 13554 Elena Gallegos
Grading and Drainage Plan
Engineer's Stamp Date: 9/02/2022
Hydrology File: E24D002B**

Dear Mr. Hensley:

PO Box 1293

Based upon the information provided in your resubmittal received 9/7/2022, the Grading & Drainage Plan **is** approved for Grading Permit only and retaining wall Permit. The following comments need to be addressed prior to building permit approval:

Albuquerque

NM 87103

www.cabq.gov

1. Pad Certification will be required prior to building permit approval.
2. Retaining wall must be permitted under a separate permit. Wall if constructed with preparation of pads must be certified prior to building permit as well.
3. Additional riprap may be need between the first wall and second wall at the southwest corner of the property.
4. Additional slope protection may be needed to the east near the southeast corner of the building where concentrated runoff of 0.87 cfs is draining over slope

If you have any questions, please contact me at 924-3999 or sbiazar@cabq.gov.

Sincerely,

Shahab Biazar, P.E. CFM
City Engineer
Development Review Services
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: 13554 Elena Gallegos **Building Permit #:** _____ **Hydrology File #:** E23
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 80 PLAT OF UNIT 3 OF THE HIGHLANDS AT HIGH DESERT
City Address: 13554 Elena Gallegos N.E.

Applicant: THE Group **Contact:** Ron Hensley
Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124
Phone#: 505-410-1622 **Fax#:** _____ **E-mail:** ron@thegroup.cc
Owner: Diego Handcrafted Homes **Contact:** _____
Address: 8100 Wyoming Blvd. NE. Ste. M4-511, Albuquerque
Phone#: 505-999-8686 **Fax#:** _____ **E-mail:** diegohandcraftedhomes@gmail.com

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: 9/07/2022 **By:** Ron E. Hensley

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

September 2, 2022

Mr. Rob Montoya
NCC High Desert Homeowners Association
Albuquerque, NM

Re: Lot 80 13554 Elena Gallegos
Review of the Lot Specific Grading and Drainage

Dear Rob:

The enclosed plan prepared by The Hensley Engineering Group (Ron Hensley) with a stamp date of 09/02/2022 has been reviewed and is approved. The referenced plan is enclosed.

Please let me know if you have any questions or comments concerning our review.

Sincerely,

A handwritten signature in black ink that reads "Kelly M. Klein".

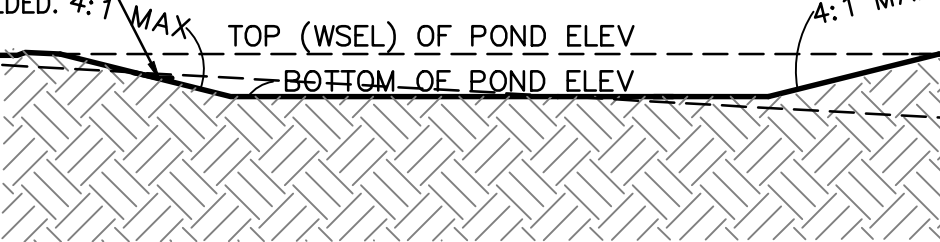
Kelly M. Klein P.E.
Project Manager
Community Development and Planning

Engineering ▲

Spatial Data ▲

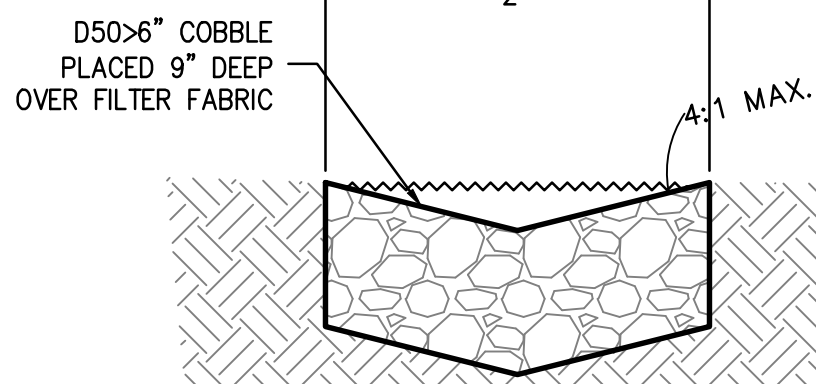
Advanced Technologies ▲

POND SIDES SHALL BE 3/4" MIN. GRAVEL
PLACED 4" DEEP OVER FILTER FABRIC
BOTTOM SHALL BE SEEDED



POND SECTION

Scale: NTS



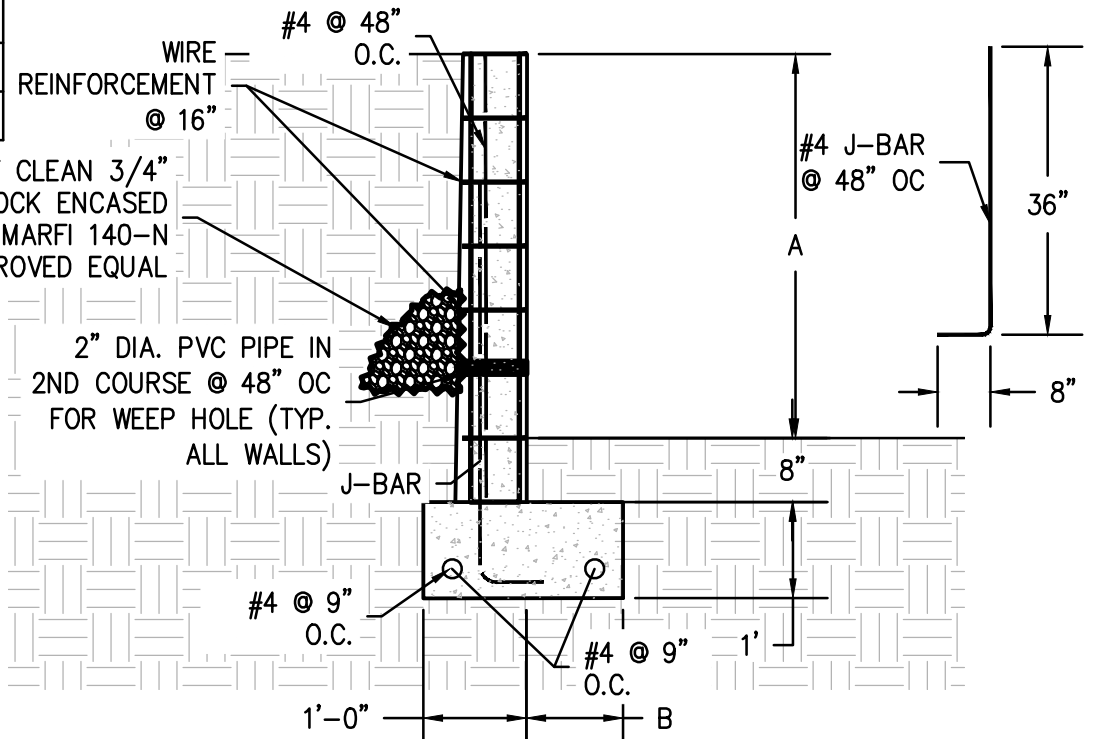
POND SWALE SECTION

Scale: NTS

Slope	Depth	Q	Area	Veloc	Wp	Yc	TopWidth	Energy
(ft/ft)	(ft)	(cfs)	(sqft)	(ft/s)	(ft)	(ft)	(ft)	(ft)
0.25	0.23	1.1	0.21	5.2	1.9	0.35	1.84	0.65

DIMENSION TABLE	
MAX A	B
2'-0"	0'-6"
2'-8"	0'-9"
3'-4"	1'-3"
4'-0"	1'-6"

1 CU.FT./LF CLEAN 3/4"
GRAVEL DRAIN ROCK ENCASED
IN FILTER FABIC MARFI 140-N
OR APPROVED EQUAL

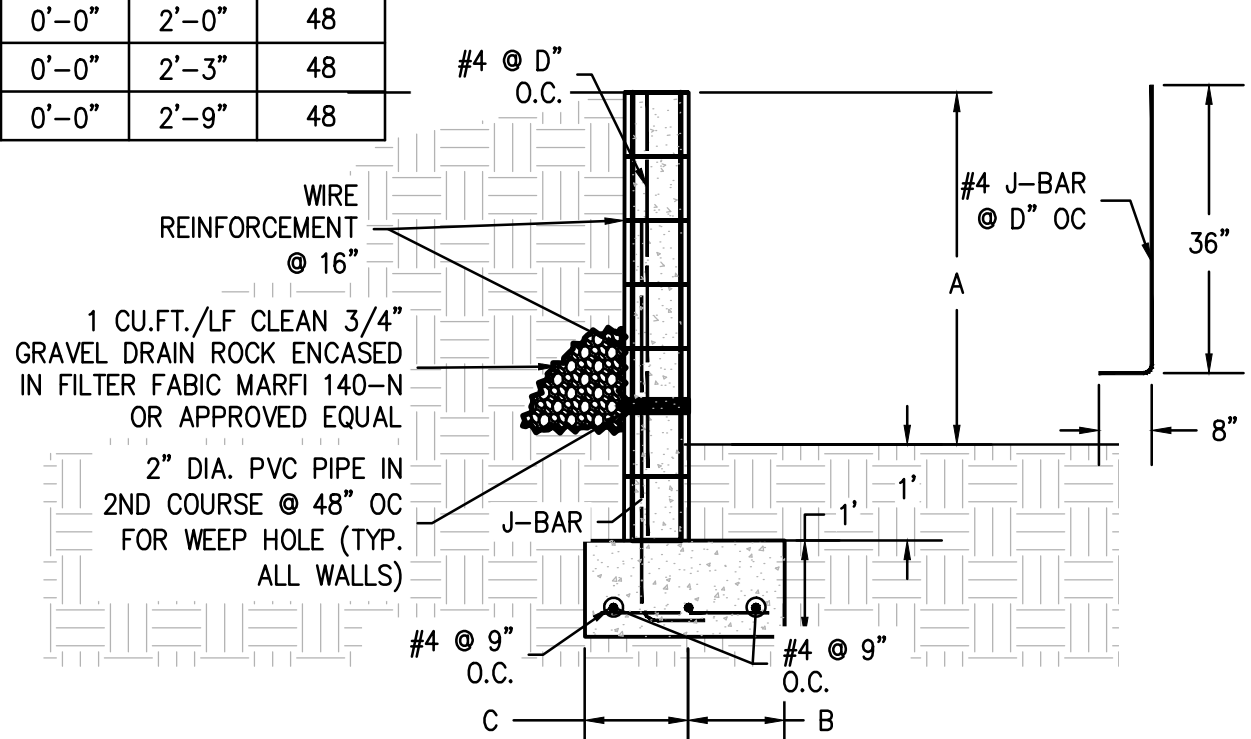


WALL SECTION

Scale: 1"=2'

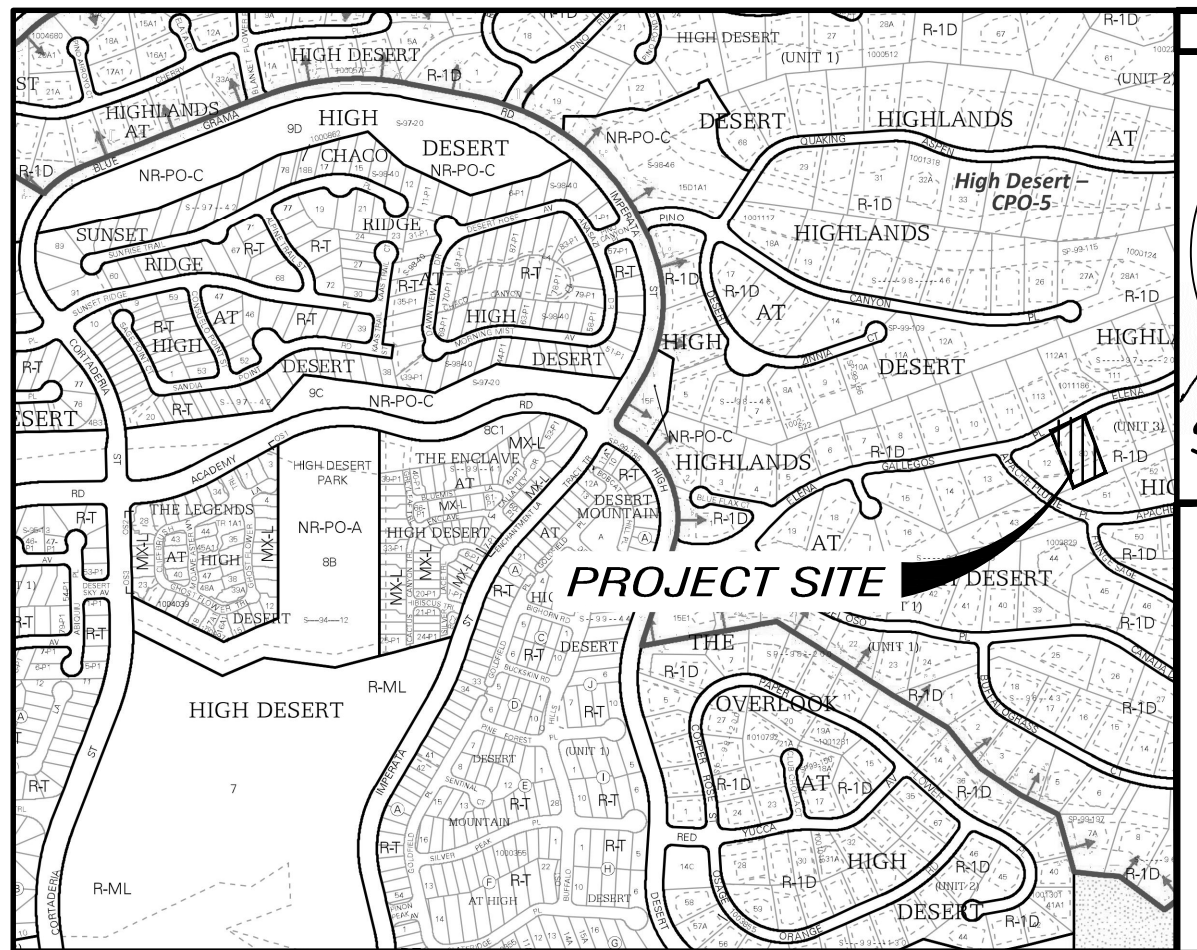
MAX A	B	C	D
2'-0"	0'-0"	1'-6"	48
2'-8"	0'-0"	2'-0"	48
3'-4"	0'-0"	2'-3"	48
4'-0"	0'-0"	2'-9"	48

WIRE
REINFORCEMENT
@ 16"



PL WALL SECTION

Scale: 1"=2'



VICINITY MAP C-19-Z

CONTRACTOR NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
3. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDDED WITH MARIPOSA SEED MIX.
5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.

GENERAL NOTES

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY DAMAGE TO ANY UTILITIES OR FACILITIES CAUSED BY THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL ORDINANCES, AND ANY OTHER APPLICABLE REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION
SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE GROUP. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

REQUIRED WATER QUALITY VOLUME

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY RETENTION ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA * 0.42/12 IN CUBIC FEET.

IMPERVIOUS AREA = 8,250 SQ.FT.

REQUIRED VOLUME = $8.250 \times 0.42/12 = 289$ CU.FT.
VOLUME PROVIDED = $361 + 31 = 392$ CU.FT.

LEGEND

- | | |
|---|--------------------|
|  | FLOW ARROW |
|  | SLOPE ARROW |
|  | PROPOSED ELEVATION |
|  | EXISTING ELEVATION |
|  | GRADE BREAK |
|  | PROPOSED CONTOUR |
|  | EXISTING CONTOUR |
|  | PROPOSED EASEMENT |
|  | GARDEN WALL |
|  | RETAINING WALL |
|  | SWALE / FLOW LINE |
|  | SPLASH PAD |



THE HENSLEY ENGINEERING GROUP
300 BRANDING IRON RD. SE
RIO RANCHO, NEW MEXICO 87124
Phone:(505) 410-1622

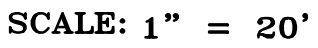
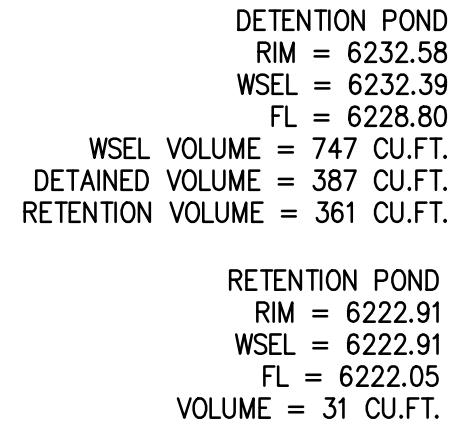
PROJECT ADDRESS:
13554 ELEANA GALLEGOS PL. N.E.
ALBUQUERQUE, NM

GRADING & DRAINAGE PLAN

PROJECT NAME: **VIGIL RESIDENCE**

-PROJECT NUMBER-
 -PROJECT PROGRESS-
BLDG. PERM
 -DRAWN BY-
REH
 -CHECKED BY- / -APPROVED BY-
REH / REH
 -DATE-
JULY 12, 20
 -SCALE-
AS NOTED
 -SHEET-

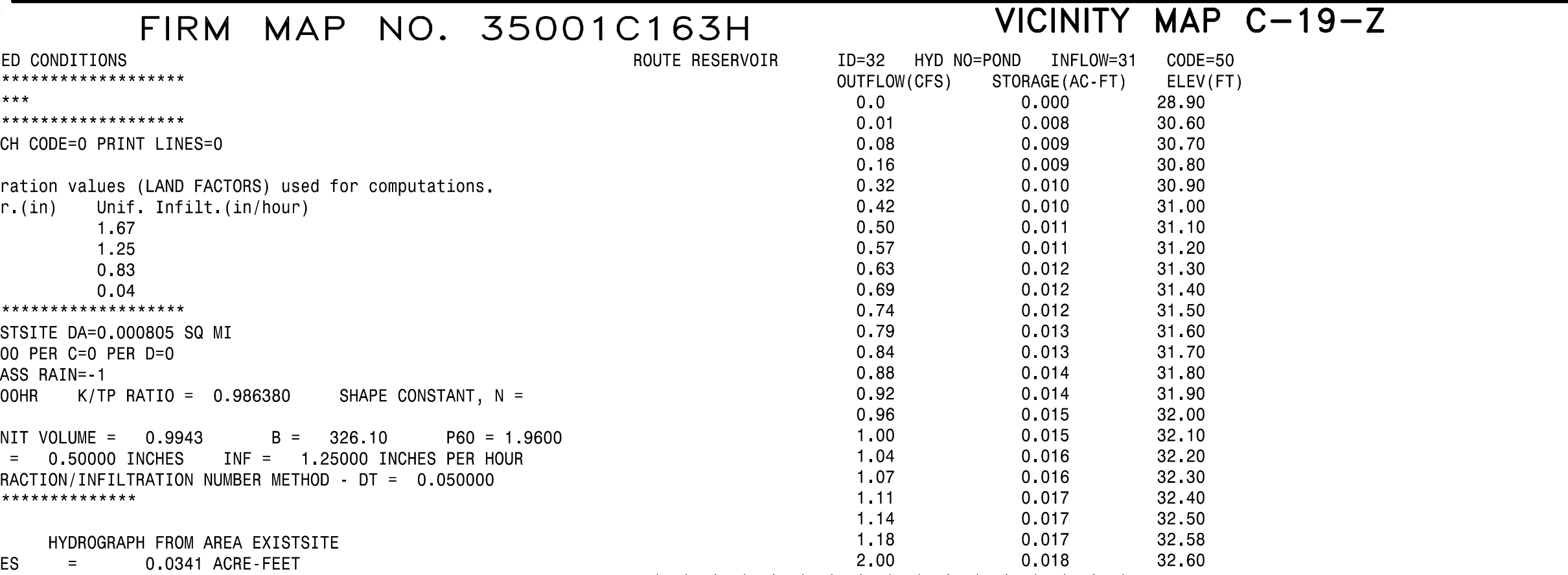
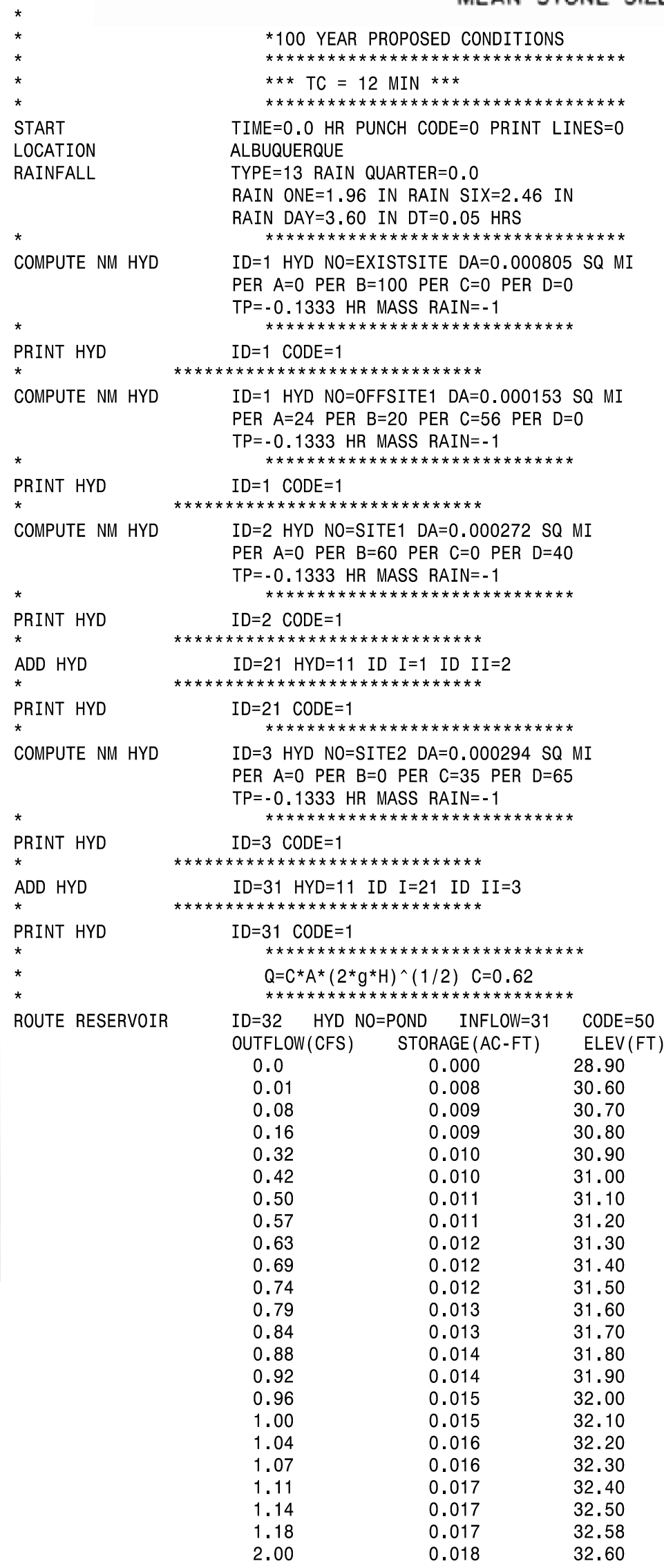
C 2



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*                                     *100 YEAR PROPOSED CONDITIONS
*                                     *****
*                                     *** TC = 12 MIN ***
*
START                                TIME=0.0 HR PUNCH CODE=0 PRINT LINES=0
LOCATION                              ALBUQUERQUE
RAINFALL                             TYPE=13 RAIN QUARTER=0.0
                                      RAIN ONE=1.96 IN RAIN SIX=2.46 IN
                                      RAIN DAY=3.60 IN DT=0.05 HRS
*
*                                     *****
COMPUTE NM HYD                      ID=1 HYD NO=EXISTSITE DA=0.000805 SQ MI
*                                     TYPE=13 RAIN QUARTER=0.0
*                                     RAIN ONE=1.96 IN RAIN SIX=2.46 IN
*                                     RAIN DAY=3.60 IN DT=0.05 HRS
*                                     TP=-0.1333 HR MASS RAIN=-1
*
PRINT HYD                           ID=1 CODE=1
*
*                                     *****
COMPUTE NM HYD                      ID=1 HYD NO=OFFSITE1 DA=0.000153 SQ MI
*                                     PER A=24 PER B=20 PER C=56 PER D=0
*                                     TP=-0.1333 HR MASS RAIN=-1
*
PRINT HYD                           ID=1 CODE=1
*
*                                     *****
COMPUTE NM HYD                      ID=2 HYD NO=SITE1 DA=0.000272 SQ MI
*                                     PER A=0 PER B=60 PER C=0 PER D=40
*                                     TP=-0.1333 HR MASS RAIN=-1
*
PRINT HYD                           ID=2 CODE=1
*
*                                     *****
ADD HYD                             ID=21 HYD=1 ID 1=1 ID II=2
*
PRINT HYD                           ID=21 CODE=1
*
*                                     *****
COMPUTE NM HYD                      ID=3 HYD NO=SITE2 DA=0.000294 SQ MI
*                                     PER A=0 PER B=0 PER C=35 PER D=65
*                                     TP=-0.1333 HR MASS RAIN=-1
*
PRINT HYD                           ID=3 CODE=1
*
*                                     *****
ADD HYD                             ID=31 HYD=1 ID 1=21 ID II=3
*
PRINT HYD                           ID=31 CODE=1
*
*                                     *****
*                                     Q=C*A*(2*g*H)^(1/2) C=0.62
*
ROUTE RESERVOIR                    ID=32 HYD NO=POND INFLOW=31 CODE=50
*                                     OUTFLOW(CFS) STORAGE(AC-FT) ELEV(FT)
*                                     0.0 0.000 28.90
*                                     0.01 0.008 30.60
*                                     0.08 0.009 30.70
*                                     0.16 0.009 30.80
*                                     0.32 0.010 30.90
*                                     0.42 0.010 31.00
*                                     0.50 0.011 31.10
*                                     0.57 0.011 31.20
*                                     0.63 0.012 31.30
*                                     0.69 0.012 31.40
*                                     0.74 0.012 31.50
*                                     0.79 0.013 31.60
*                                     0.84 0.013 31.70
*                                     0.88 0.014 31.80
*                                     0.92 0.014 31.90
*                                     0.96 0.015 32.00
*                                     1.00 0.015 32.10
*                                     1.04 0.016 32.20
*                                     1.07 0.016 32.30
*                                     1.11 0.017 32.40
*                                     1.14 0.017 32.50
*                                     1.18 0.017 32.58
*                                     1.20 0.018 32.60

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[illegible]