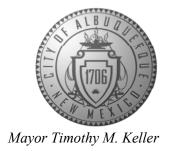
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



February 14, 2023

Troy Kelts, P.E. Galloway & Company 6162 S Willow Drive, Suite 320 Greenwood Village, CO 80111

RE: 2121 Yale Boulevard SE

> **Revised Master Drainage Plan** Engineer's Stamp Date: 02/13/23

Hydrology File: M15D021

Dear Mr. Kelts:

Based upon the information provided in your submittal received 02/03/2023, the Revised Master Drainage Plan is approved for action by the Development Facilitation Team (DFT) and

Development Hearing Officer (DHO) on Preliminary/Final Plat.

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 (Doug 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.

www.cabq.gov

PO Box 1293

Albuquerque

NM 87103

Sincerely,

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

Renée C. Brissette

Planning Department



City of Albuquerque

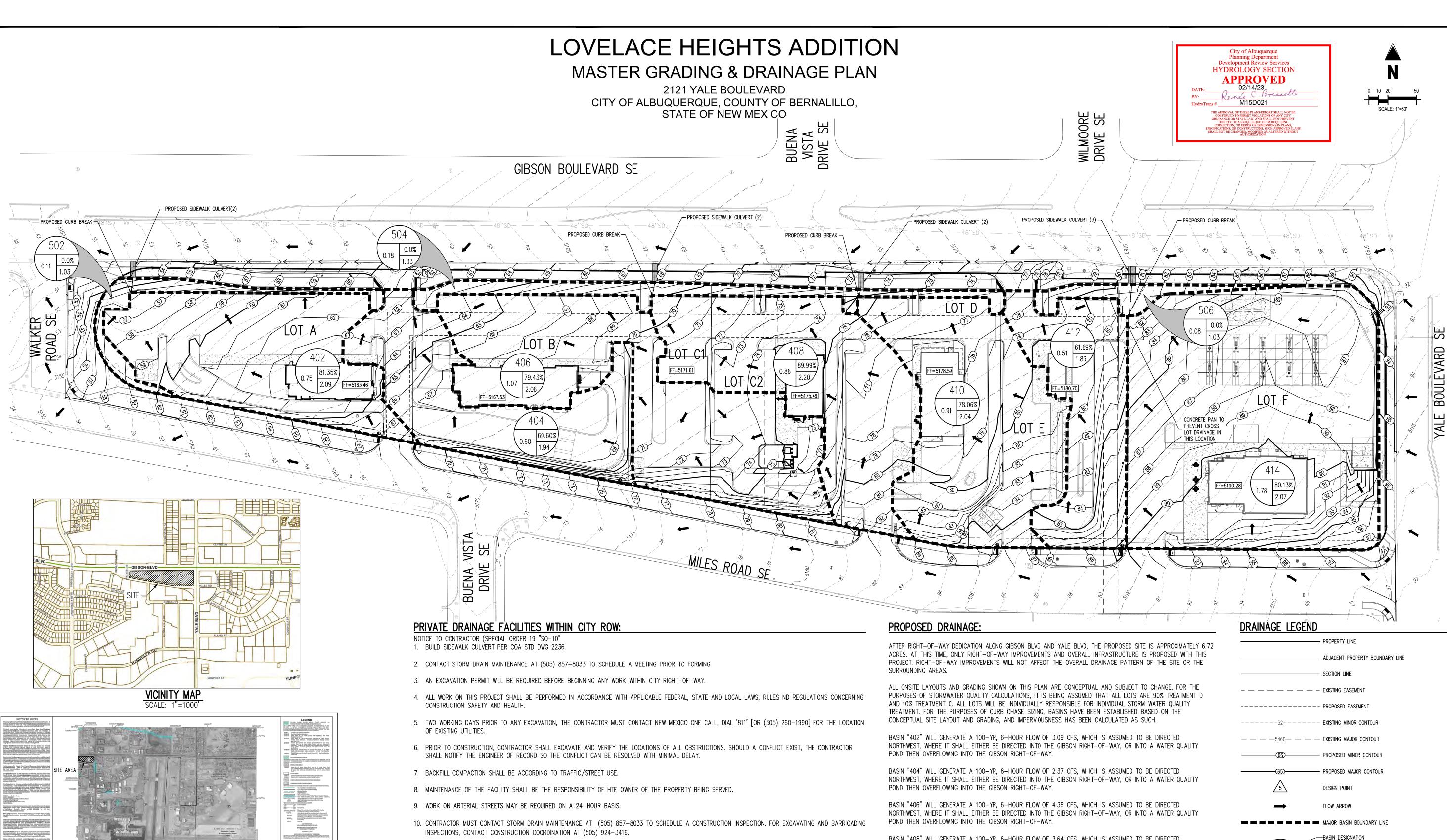
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

| Project Title: | Building | Permit #: | Hydrol | Hydrology File #: | |
|---|--------------------|---|--------------|-------------------|--|
| DRB#: | EPC#: | | Work Order#: | | |
| Legal Description: | | | | | |
| City Address: | | | | | |
| Applicant: | | | Contact: | | |
| Address: | | | | | |
| Phone#: | | | | | |
| Other Contact: | | | Contact: | | |
| Address: | | | | | |
| Phone#: | Fax#: | | E-mail: | | |
| TYPE OF DEVELOPMENT: | _ PLAT (# of lots) | RESIDENCE _ | DRB SITE | ADMIN SITE | |
| IS THIS A RESUBMITTAL? Y | es 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 APPROVAI 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: | By: | | | | |

FEE PAID:___



Date Issue / Description

EXISTING DRAINAGE:

5%

THIS SITE IS CURRENTLY DEVELOPED AND USED AS AIRPORT PARKING, CONSISTING OF SEVERAL BUILDINGS, CARPORTS, AND ASPHALT DRIVES. ALMOST THE ENTIRETY OF THE LOT IS IMPERVIOUS AREA. THE SITE IS BOUNDED BY GIBSON BLVD TO THE NORTH, YALE BLVD TO THE EAST, MILES RD TO THE SOUTH, AND WALKER DR TO THE WEST. THE SITE IS APPROXIMATELY 7.18 ACRES AND DRAINS FROM SOUTHEAST TO NORTHWEST, FREE RELEASING INTO GIBSON BLVD THROUGH SEVERAL SIDEWALK CULVERTS. THE SITE IS NOT LOCATED IN A FLOODPLAIN AS SHOWN ON THE FIRM MAP (SEE THIS SHEET). THE PROJECT DOES NOT RECEIVE OFFSITE FLOWS.

-PERCENT TREATMENT D

—BASIN AREA IN ACRES

INDIVIDUAL LOTS ARE NOT BEING DEVELOPED AT THIS TIME. LOTS SHALL BE INDIVIDUALLY RESPONSIBLE FOR STORM WATER QUALITY TREATMENT. INDIVIDUAL LOTS SHALL NEED TO CONFORM TO RELEASE RATES SPECIFIED IN THIS PLAN. CURRENT SITE LAYOUT AND GRADING SHOWN ARE CONCEPTUAL AND SUBJECT TO CHANGE.

Project No: PRP000008 Checked By: 01/05/2023

CONCEPTUAL MASTER GRADING & DRAINAGE PLAN

6162 S. Willow Drive, Suite 320

Greenwood Village, CO 80111

THESE PLANS ARE AN INSTRUMENT OF SERVICE

ENFORCED AND PROSECUTED.

DRAINA ADDITIC

∞ w

R GRADING ACE HEIGHT

MAST| LOVE|

GIBSON,

∞

125

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303.770.8884

GallowayUS.com

Curb Chase Capacity Weir Equation: Required Equivalent Curb Opening FOR WATER QUALITY 100-Year Flow Number of 2' Equivalent Open Actual Flow $Q = CLH^{3/2}$ Curb Openings Length (ft) 402 3.09 5.26 404

406

408

410

Q = Flow

C = 2.95

L = Length of weir

H = Height of weir

 $Q = 2.95*2*0.583^{3/2}$

Q = 2.63 cfs

2' Curb Chase Capacity (8" Curb)

2.63 2.37 4.36 5.26 5.26 3.64 3.68 5.26 1.98 6.72 AT THE TIME OF BUILDING

1930

FIRM

MAP NUMBER BSS01C03810

NOTE: LOT LAYOUTS AND GRADING ARE CONCEPTUAL AND SUBJECT TO CHANGE. Volume = Weighted E * Total Area CALCULATION PURPOSES. PROPOSED LOTS ARE ASSUMED TO BE 90%

PERMIT SUBMITTAL.

IMPERVIOUS AND SHALL BE INDIVIDUALLY RESPONSIBLE FOR WATER QUALITY TREATMENT BASED ON ACTUAL LAND TREATMENT

Excess Precipitation, E (in) Zone 2 100-Year 10-Year Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / Total Area Ea 0.62 0.15 Eb 0.80 0.30 Ec 1.03 0.48 Ed 2.33 Flow = Qa*Aa + Qb**Ab + Qc*Ac + Qd*Ad

acres

402 32,869 0.75 0.00% 0

39,478 0.91 0.00%

22,403 0.51 0.00%

504 7,918 0.18 0.00% 0

0.86 0.00%

1.65 0.00%

0.11 0.00%

404 26,095 0.60 0.00%

4,717

Total 292,877 6.72

acres

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

0.00% 0

| er Quality Calculations Note: For redevelopment site, SWQV = 0.26 in | | | | | | | |
|--|----------------------------|---------|------------------|---------------------|--|--|--|
| | Impervious Area (sf) | SWQV | Storm Water | Storm Water | | | |
| ot | (Assumed 90% of basin area | a) (in) | Quality Vol (cf) | Quality Vol (ac-ft) | | | |
| 4 | 39,428 | 0.26 | 854 | 0.020 | | | |
| В | 39,618 | 0.26 | 858 | 0.020 | | | |
| 1 | 18,365 | 0.26 | 398 | 0.009 | | | |
| | | | | | | | |

0.26

BASIN "408" WILL GENERATE A 100-YR. 6-HOUR FLOW OF 3.64 CFS, WHICH IS ASSUMED TO BE DIRECTED NORTHWEST, WHERE IT SHALL EITHER BE DIRECTED INTO THE GIBSON RIGHT-OF-WAY, OR INTO A WATER QUALITY POND THEN OVERFLOWING INTO THE GIBSON RIGHT-OF-WAY.

BASIN "410" WILL GENERATE A 100-YR, 6-HOUR FLOW OF 3.68 CFS, WHICH IS ASSUMED TO BE DIRECTED NORTHWEST, WHERE IT SHALL EITHER BE DIRECTED INTO THE GIBSON RIGHT-OF-WAY, OR INTO A WATER QUALITY POND THEN OVERFLOWING INTO THE GIBSON RIGHT-OF-WAY.

BASIN "412" WILL GENERATE A 100-YR, 6-HOUR FLOW OF 1.98 CFS, WHICH IS ASSUMED TO BE DIRECTED NORTHWEST, WHERE IT SHALL EITHER BE DIRECTED INTO THE GIBSON RIGHT-OF-WAY, OR INTO A WATER QUALITY POND THEN OVERFLOWING INTO THE GIBSON RIGHT-OF-WAY.

BASIN "414" WILL GENERATE A 100-YR, 6-HOUR FLOW OF 6.72 CFS, WHICH IS ASSUMED TO BE DIRECTED NORTHWEST, WHERE IT SHALL EITHER BE DIRECTED INTO THE GIBSON RIGHT-OF-WAY, OR INTO A WATER QUALITY POND THEN OVERFLOWING INTO THE GIBSON RIGHT-OF-WAY.

BASIN "502" WILL GENERATE A 100-YR, 6-HOUR FLOW OF 0.33 CFS, WHICH IS ASSUMED TO BE DIRECTED NORTHWEST, WHERE IT SHALL EITHER BE DIRECTED INTO THE GIBSON RIGHT-OF-WAY, OR INTO A WATER QUALITY POND THEN OVERFLOWING INTO THE GIBSON RIGHT-OF-WAY. THIS BASIN REPRESENTS LANDSCAPED AREA AROUND THE PERIMETER OF LOT A.

BASIN "504" WILL GENERATE A 100-YR. 6-HOUR FLOW OF 0.55 CFS. WHICH IS ASSUMED TO BE DIRECTED NORTHWEST, WHERE IT SHALL EITHER BE DIRECTED INTO THE GIBSON RIGHT-OF-WAY, OR INTO A WATER QUALITY POND THEN OVERFLOWING INTO THE GIBSON RIGHT-OF-WAY. THIS BASIN REPRESENTS LANDSCAPED NORTH OF LOTS B.

BASIN "506" WILL GENERATE A 100-YR, 6-HOUR FLOW OF 0.24 CFS, WHICH IS ASSUMED TO BE DIRECTED NORTHWEST, WHERE IT SHALL EITHER BE DIRECTED INTO THE GIBSON RIGHT-OF-WAY, OR INTO A WATER QUALITY POND THEN OVERFLOWING INTO THE GIBSON RIGHT-OF-WAY. THIS BASIN REPRESENTS LANDSCAPED NORTH OF LOTS E

THE TOTAL DISCHARGE INTO THE GIBSON RIGHT-OF-WAY SHALL BE LESS THAN THE DISCHARGE IN THE EXISTING CONDITIONS DUE TO THE INCREASE IN LANDSCAPED AREA ONSITE.

0.26 0.016 37,897 0.26 821 0.019 0.016 32.034 0.26 694

Weighted E Method (Developed

18.65% 0.14 81.35% 0.61

30.40% 0.18 69.60% 0.42

% acres

79.43% 0.85

89.99% 0.78

19.87% 0.33 80.13% 1.32 2.072 3.410 6.72

Qc

% acres

0.09

506 3,454 0.08 0.00% 0 0.00% 0 100.00% 0.08 0.00% 0.00 1.030 0.082 0.24 0.480 0.038 0.13

10.01%

| Weighted E | Volume | Flow | Weighted E | Volume | Flow

1.197

0.717 1.42

1.216 2.25

1.298 1.388 2.65

1.305 2.148 4.09

1.575 3.09

1.159 2.37

2.063 2.206 4.36

2.200 1.902 3.64

1.59

21.94% 0.20 78.06% 0.71 2.045 1.853 3.68 1.284 1.164 2.23

 38.31%
 0.20
 61.69%
 0.32
 1.832
 0.942
 1.98
 1.115
 0.574
 1.17

 100.00%
 0.11
 0.00%
 0.00
 1.030
 0.112
 0.33
 0.480
 0.052
 0.17

 100.00%
 0.18
 0.00%
 0.00
 1.030
 0.187
 0.55
 0.480
 0.087
 0.29

1.935

Peak Discharge (cfs/acre)

Zone 2 100-Year 10-Year

Qa 1.71 0.41

Qb 2.36 0.95

3.05

4.34