### CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



May 7, 2021

Gilbert Aldez Applied Engineering and Surveying, Inc. 1605 Blair Dr. NE Albuquerque, NM 87112

RE: 13804 Haines Ave. NE

Permanent Certificate of Occupancy - Accepted Grading and Drainage Plan Stamp Date: 8/11/20

Certification Dated: 5/4/21 Drainage File: H15D068

Dear Mr. Perea:

Based on the submittal received on 5/4/21 and site visit on 5/6/21, this certification is approved

in support of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

Albuquerque

Sincerely,

NM 87103

Ernest Armijo, P.E.

www.cabq.gov Principal Engineer, Planning Dept.

**Development Review Services** 



COA STAFF:

## City of Albuquerque

#### Planning Department

#### Development & Building Services Division

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: 13804 HAINES RESIDENC		
		Work Order#:
Legal Description: LOT 2, BLOCK 17,		N
City Address: 13804 HAINES AVENUE	NE	
Applicant: APPLIED ENGINEERING AND	SURVEYING, INC.	Contact: GILBERT ALDAZ
Address: 1605 BLAIR DRIVE NE, ALBUQ	UERQUE, NEW MEXICO	, 87112
Phone#: 505-480-8125	Fax#:	E-mail: galdaz47@yahoo.com
Owner: GILBERT ALDAZ		Contact: GILBERT ALDAZ
Address: 1605 BLAIR DRIVE NE, ALBUQ	UERQUE, NEW MEXICO	, 87112
		E-mail: galdaz47@yahoo.com
i none.		
TYPE OF SUBMITTAL:PLAT (	# OF LOTS) X	RESIDENCE DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL?:	Yes X	No
DEPARTMENT: TRAFFIC/ TRA	ANSPORTATION ^	HYDROLOGY/ DRAINAGE
Check all that Apply:		
TYPE OF CUDMITTAL.		
TYPE OF CUDALITY II.		TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
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ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:\_

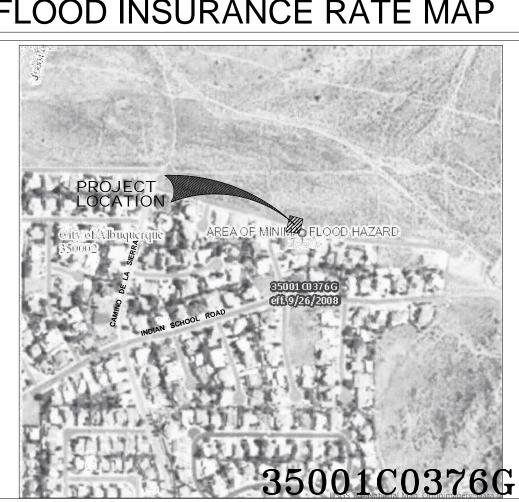
# 13804 HAINES AVENUE NE TEMP. BENCH MARK, SCRIBE ON CURB-ELEV = 6102.396 GRAPHIC SCALE ( IN FEET ) **GRADING PLAN** 1 inch = 10 ft.

#### **GENERAL NOTES:**

- (1) CONSTRUCT NEW 6' HIGH CMU WALL.
- 2 CONSTRUCT NEW 2" HIGH RETAINING WALL..
- 3 CONSTRUCT 8' X 8' DESILTING POND.
- (4) CONSTRUCT 3 FOOT WIDE SWALE WITH +/-4" FRACTURED STONE WITH FILTER FABRIC, 12" THICK, PROVIDE A 6" DEPRESSION ADJACENT TO SIDEWALK.
- (5) CONSTRUCT CONCRETE DRIVEWAY...

- 6 PROPOSED DRAINAGE BASIN BOUNDARY FOR NORTHEAST CORNER THAT DRAINS INTO DESILTING POND
- 7 PROVIDE ONE BLOCK OPENING AT BOTTOM OF NEW WALL TO ALLOW FLOWS TO DRAIN OUT.
- 8 INSTALL ROOF DRAINS WITH CANALES THAT DRAIN ONTO A CONCRETE SPLASH BLOCK.









APPLIED ENGINEERING AND SURVEYING, INC.

CIVIL ENGINEERING, LANDES PLANNING AND SURVEYING

RESIDENCE

13804 HAINES AVENUE

ALBUQUERQUE, NEW MEXICO

PROJECT NAME

### DRAINAGE CALCULATIONS

DRAINAGE CERTIFICATION:

GILBERT ALDAZ, NMPE 10848(SEAL)

DATE: 05/04/2021

— 5980 — NEW FINAL SURFACE GRADE

CUT = 283CY

FILL = 226CY

-5980 EXISTING CONTOUR GRADE

EARTHWORK VOLUME:

CONSIST OF A ROOF AREA OF APPROXMITELY 3,852SF ON ONE OF A ONLY FEW REMAINING EXISTING LOTS THAT WERE NEARLY BUILT OUT IN THE 1990S IN THE EAST FOOTHILLS. THE LOCATION IS EAST OF TRAMWAY AND NORTH OF INDIAN SHOOL ROAD. THE EXISTING TOPOGRAPHY ON THIS SITE DROPS TO THE NORTHWEST CORNER AND IS ABOUT 13 FEET FROM THE NORTHWEST CORNER STREET TOP OF CURB TO THE SOUTHEAST PROPERTY CORNER. THE PLAN IS TO FREE DISCHARGE THE PROPOSED IMPERVIOUS FLOWS TO HAINES AVENUE AS PART OF THIS PROJECT. ALONG HAINES AVENUE, ALL OF THE EXISTING RESIDENCES ON THE SOUTHSIDE OF THIS STREET FOLLOW THIS DRAINAGE CONCEPT, IT IS THE PROPOSAL OF THIS PLAN TO FOLLOW THE SAME DRAINAGE CONCEPT. ON THE NORTH SIDE OF HAINES AVENUE THE AREA IS DESIGNATED CITY OPEN SPACE SO PROBABLY NO DEVELOPMENT IN THE FUTURE FOR THIS AREA. THE INTENT OF THIS DRAINAGE PLAN IS TO SECURE A

PROJECT DESCRIPTION:
THE LEGAL DESCRIPTION FOR THE PROPOSED RESIDENCE IS LOCATED IN LOT 2, BLOCK 17, REBONITO SUBDIVISION AND IS EAST OF TRAMWAY AND NORTH OF INDIAN SCHOOL ROAD, ALBUQUERQUE (SEE ATTACHED VICINITY MAP). THE PROJECT IS LOCATED IN ZONE ATLAS PAGE J-23 AND IS IN FLOOD HAZARD ZONE "X", AREA OF MINIMAL FLOOD HAZARD PER MAP 35001C0376G (SEE ATTACHED FLOOD MAP).

ROUGH GRADING PERMIT AND A BUILDING PERMIT APPROVAL FOR THE PROPOSED IMPROVEMENTS.

IN 1986 A SPECIAL ASSESSMENT DISTRICT "SAD 207" WAS CREATED FOR REBONITO SUBDIVISION WHICH RESULTED IN THE INSTALLATION OF STORM SEWER, WATER AND SEWER LINES AND ROADWAY AND SIDEWALK. THE LOT OWNER AT THAT TIME PAID A PRO-RATA COST FOR THE INSTALLATION OF THIS INFRASTRUCTURE WHICH INCLUDED STORM DRAIN IMPROVEMENTS FOR ADDRESSING RUNOFF FROM THIS SUBDIVISION.

AS SHOWN PER THE GRADING PLAN AND PER THE TOPOGRAPHY FROM A SURVEY PERFORMED ON AUGUST 2<sup>ND</sup>, 2020 THE LOT CURRENTLY DRAINS TO THE NORTHWEST CORNER FROM THE SOUTHEAST CORNER AND INTO HAINES AVENUE.  $\,$  THE TOTAL LO $\,$ AREA OF THIS SITE = 13,465SF (0.31AC). IT APPEARS IMPROVEMENTS AND GRADING WERE PERFORMED ON THIS SITE BASED ON THE ORIGINAL TOPOGRAPHY WHICH IS SHOWN ON THIS DRAWING FROM 2010. IN DISCUSSIONS WITH THE CURRENT LAND DWNER AND REVIEW OF THE ORIGINAL TOPOGRAPHY THAT SHOWS TWO FOOT CONTOURS THE SOUTH HALF OF THE SITE ORIGINALLY DRAINED TO THE SOUTHWEST CORNER AND WAS CAUSING SOME FLOODING TO THE ADJACENT LOT 20. BASED ON THE SURVEY AND THE RECENT SITE VISIT IMPROVEMENTS WERE MADE ALONG THE SOUTH BOUNDARY THAT CREATED A COBBLE SWALE THAT NOW DIVERTS THIS FLOW BACK TO HAINES AVENUE AS SHOWN ON THE PLAN. BASED ON THE ADJACENT LOT OWNER THIS HAS SOLVED THE ORIGINAL DRAINAGE ISSUES OF CROSS LOT DRAINAGE. ALSO, A RETAINING WALL WAS ALSO CONSTRUCTED ON THE NORTH SIDE OF THE PROPERTY AND THE OWNER RECEIVED A GREEN TAG ON JUNE 29, 2017 FROM THE CITY OF ALBUQUERQUE FOR THE CONSTRUCTION. THIS WALL DOES NOT APPEAR TO BE CREATING ANY ADDITIONAL DRAINAGE ISSUES FOR THIS PROPERTY.

AS SHOWN BY THE GRADING PLAN PREPARED FOR THIS SITE, THE INTENT IS TO DRAIN ABOUT 2500SF OF ROOF AREA ALONG WITH 2500SF OF CONCRETE DRIVEWAY OUT THE DRIVEWAY TO THE NORTHWEST CORNER AND INTO HAINES AVENUE. POND WHICH WOULD OVERFLOW OUT AT THE BOTTOM OF 8" X 16" NEW WALL OPENING AND BE DISCHARGED INTO A COBBLE SWALE AND ONTO HAINES AVENUE AT THE NORTHEAST CORNER OF THE SITE.

THE PLAN IS TO ALSO PROVIDE LANDSCAPING TO THE FRONT YARD AND REAR YARD TO MINIMIZE DISCHARGE SEE THE BELOW

SINCE THIS IS AN INFILL SITE WITH DEVELOPMENT ALMOST COMPLETE IN THIS SUBDIVISION AND SINCE ALL EXISTING RESIDENTS FREE DISCHARGE INTO HAINES AVENUE, ALLOWING FREE DISCHARGE FROM THIS SITE INTO THE EXISTING STORM DRAIN IMPROVEMENTS CONSTRUCTED AS PART OF A "SAD 207" IS PROPOSED. THE DRAINAGE FROM THIS SITE WILL FLOW ONTO HAINES AVENUE THEN WEST ON HAINES AVENUE AND WILL FLOW WEST INTO REBONITO ROAD UNTIL IT REACHES THE INTERSECTION OF REBONITO ROAD AND MONTE LARGO DRIVE. THERE IS A SERIES OF 5 EXISTING INLETS DESIGNED TO ACCEPT THIS FLOW, THIS FLOW THEN DRAINS NORTH ABOUT 400 FEET AND DISCHARGES INTO THE EMBUDO ARROYO. THE FREE DISCHARGE FROM THIS SITE SHOULD HAVE MINIMAL FLOOD IMPACTS TO EXISTING DOWNSTREAM CONDITIONS

- DESIGN STORM = DEPTH (INCHES) AT 100-YEAR STORM 6-HOUR = 2.64 INCHES 24-HOUR = 3.60 INCHES 10 DAY = 6.27 INCHES
- Q = 2.73 CFS/ACRE LANDSCAPED "B" Q = 3.41 CFS/AC COMPACTED SOIL "C" Q = 4.78 CFS/ACRE IMPERVIOUS AREA "D FOR WATERSHEDS LESS THAN OR EQUAL TO 40 ACRES
- E = 0.95 INCHES LANDSCAPED "B" E = 1.20 INCHES COMPACTED SOIL "C E = 3.34 INCHES IMPERVIOUS AREA 'D"
- DRAINAGE BASIN TO HAINES AVENUE ENTIRE SITE AREA(ACRES)

Q(EXISTING-6HR) =  $(2.09 \times 0.31) = 0.65CFS$  (6HR) TO REAR YARD V(EXISTING-6HR) =  $((0.76 \times 0.31) / 12) = 0.020$ AC-FT = 855CF EXISTING FLOW INTO RE

DRAINAGE BASIN TO NORTHWEST CORNER OF SITE = 13,503SF - 1,855SF(NORTHEAST CORNER ROOF AREA AND FRONT YARD) = 11,648SF = 0.27AC TYPE "D" TREATMENT = NEW ROOF AREAS (2,500SF) + CONCRETE AREA (2,500SF) = 5,000SF = 0.11AC PROPOSED TYPE "B" TREATMENT = LANDSCAPED AREAS 50% X (11.648SF -5000SF) = 3.324SF = 0.08AC TYPE "C" TREATMENT = REMAINING COMPACTED GRAVEL AND DISTURBED AREAS COMPACTED BY HUMAN ACTIVITY =

Q(PROPOSED-6HR) = {2.73 X 0.08} + {3.41 X 0.08} + {4.78 X 0.11} =1.02CFS (6HR) PROPOSED ONSITE FLOW INTO REAR RETENTION POND V(PROPOSED-6HR) = { (0.95 X 0.08} + {1.20 X 0.08} + {3.34 X 0.11}}/ 12) = 0.045AC-FT = 1.958CF PROPOSED VOLUME INTO HAINES AVENUE THROUGH DRIVEWAY.

<u>Orainage Basin to North East Corner</u> = 1,855SF = 0.04aC type "d" treatment = new roof areas {1,200SF} = 0.03aC proposed TYPE "B" TREATMENT = LANDSCAPED AREAS 50% X (1,855SF -1,200SF) = 327SF = 0.007AC TYPE "C" TREATMENT = REMAINING COMPACTED GRAVEL AND DISTURBED AREAS COMPACTED BY HUMAN ACTIVITY = 50% X (1,855SF -1,200SF) = 327SF = 0.007AC

 $Q(PROPOSED-6HR) = (2.73 \times 0.007) + (3.41 \times 0.007) + (4.78 \times 0.03) =$ 0.19CFS (6HR) PROPOSED ONSITE FLOW INTO DESILTING POND AND INTO COBBLE SWALE AT THE NORTHEAST CORNER OF PROPERTY  $V(PROPOSED-6HR) = {(0.95 \times 0.007) + (1.20 \times 0.007) + (3.34 \times 0.03)}/12) =$ 0.01AC-FT = 418CF\_PROPOSED ONSITE FLOW INTO DESILTING POND AND INTO COBBLE SWALE AT THE NORTHEAST CORNER OF PROPERTY

DESILTING POND VOLUME PROVIDED = 6.7FT X 6.7FT X 1FT DEEP = 45CF < 418CF 100 YEAR VOLUME.

IMPACT OF THIS NEW RESIDENCE ON DOWNSTREAM STORM DRAIN CAPACITY (100-YEAR, 6 HOUR STORM)

Q (EXISTING-6-HR) RELEASE RATE FOR SITE = 0.63CFS

Q (PROPOSED-6-HR) RELEASE RATE FOR SITE = 1.02CFS + 0.19CFS = 1.21CFS

Q (DIFFERENCE-6-HR) = 0.65CFS - 1.21CFS = 0.56CFS INCREASE TO DOWNSTREAM INLETS AND EMBUDO ARROYO

V (EXISTING-6HR) RUNOFF VOLUME FOR SITE = 855CF V (PROPOSED-6HR) RUNOFF VOLUME FOR SITE = 1,958CF + 418CF = 2,376CF V (DIFFERENCE-6HR) = 855CF - 2,376CF = 1,521CF INCREASE TO DOWNSTREAM INLETS AND EMBUDO ARROYO

LGILBERT ALDAZ. NMPE 10848 THE FIRM APPLIED ENGINEERING AND SURVEYING, INC. HEREBY CERTIFY

THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND

IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 08/26/2020. THE RECORD INFORMATION FDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY GILBERT ALDAZ, NMPS 10298 OF THE FIRM APPLIED ENGINEERING AND SURVEYING. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 05/01/2021AND HAVE

DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF

ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND

BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATION OF

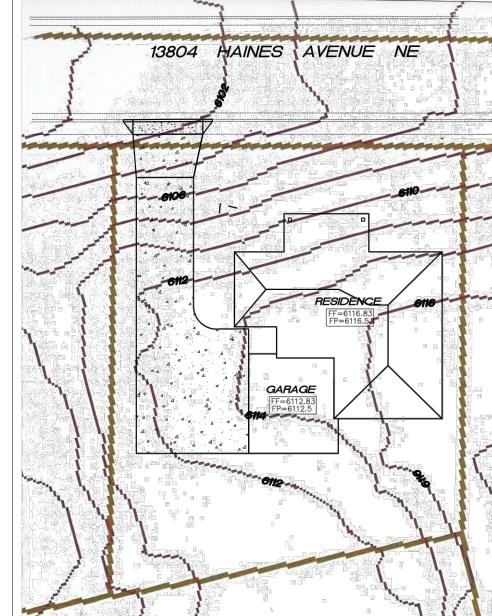
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND

LEGEND

AS-BUILT EXISTING FLOWLINE ELEVATION

INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE

ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER



BENCH MARK REFERENCE: CITY OF ALBUQUERQUE 1-3/4" ALUMINUM DISK, STAMPED "ACS BM, 14-J23", EPOXIED TO TOP OF THE CONCRETE CURB RETURN, SW QUADRANT OF REBONITO ROAD AND CAMINO DEL SIERRA NE WITH ELEVATION = 6051.357 NAVD88.

## 50 AS-BUILT EXISTING TOP OF CURB ELEVATION

PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER, THE SURVEYOR WHO PERFORMED THE TOPOGRAPHIC SURVEY FOR THIS MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

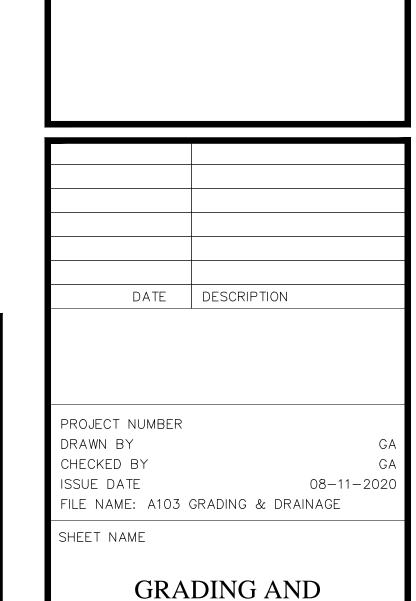
LOCATION, DEPTH, SIZE OR TYPE OF EXISTING ABOVE AN UNDERGROUND UTILITIES, OR EXISTING PIPELINES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND COMPLY WITH STATE STATUES PERTAINING TO THE LOCATION OF THESE

# ORIGINAL TOPOGRAPHY

#### **EXCAVATION/UTILITY NOTES:**

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THIS DRAWING, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY. UTILITY LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION DEVELOPMENT OR BY OTHERS. THE INFORMATION MAY BE INCOMPLETE, OR

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM UTILITIES, AND EXISTING PIPELINES, IN AND NEAR THE AREA OF THE WORK, FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO UNDERGROUND UTILITIES, AND EXISTING PIPELINES. THE CONTRACT SHALL LINES IN PLANNING AND CONDUCTING EXCAVATION WORK.



DRAINAGE PLAN

A-103

SHEET NUMBER