CITY OF ALBUQUERQUE

January19, 2017

Gilbert Aldaz, PE
Applied Engineering & Surveying Inc.
1605 Blair Dr. NE
Albuquerque, NM

Re: AMAFCA
3901 Masthead St NE
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 9-26-16 (D17D095)
Certification dated: 1-18-17

Dear Mr. Valdez,

Based on the Certification received 1/17/2017, the site is acceptable for permanent release of Certificate of Occupancy by Hydrology.

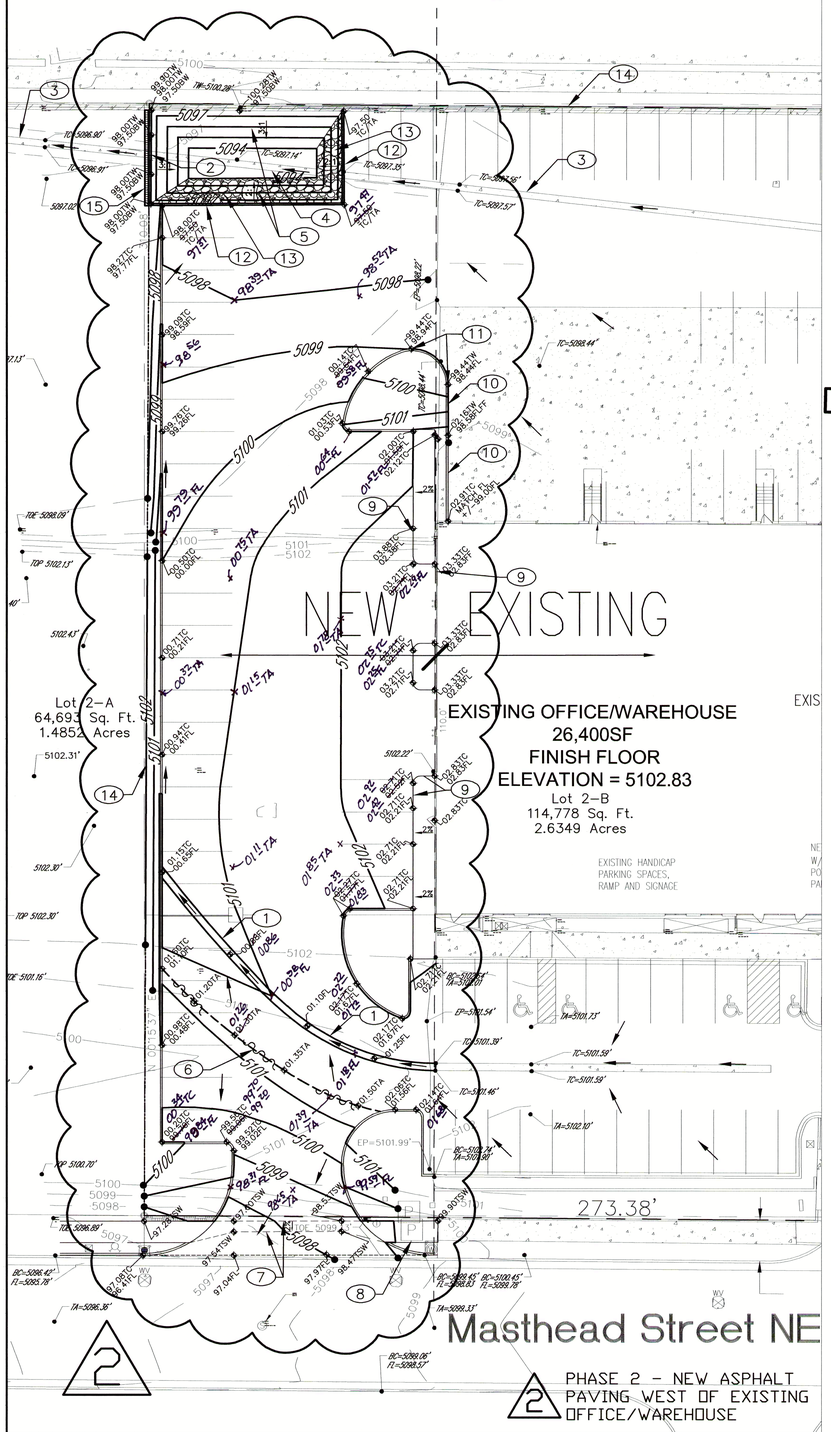
If you have any questions, you can contact me at 924-3999 or Totten Elliott at 924-3982.

Sincerely,

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

TE/SB
C: email Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois

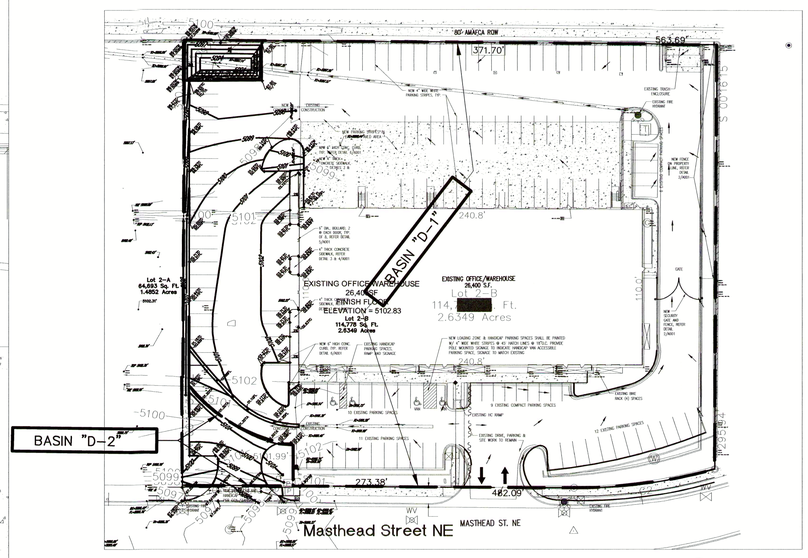
PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov



PHASE 2 - NEW ASPHALT PAVING WEST OF EXISTING OFFICE/WAREHOUSE

GRADING PLAN - WEST DRIVEWAY

SCALE: 1" = 20'



DRAINAGE BASIN BOUNDARY LOT 2-B

SCALE: 1" = 50'

DRAINAGE CALCULATIONS

DRAINAGE PLAN
THE FOLLOWING ITEMS CONCERNING THE NEW STAR OFFICE/WAREHOUSE BUILDING AT 3901MASTHEAD STREET NE, ALBUQUERQUE, NEW MEXICO, GRADING AND DRAINAGE PLAN ARE CONTAINED HEREON:

1. GRADING PLAN
2. VICINITY MAP (D-17)

EXITING CONDITIONS
AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED ON THE NORTH SIDE OF MASHEAD STREET AND TO THE EAST OF BARTLETT STREET NE AT 3901 MASHEAD STREET NE, (SEE ATTACHED VICINITY MAP (D-17). THE PARCEL'S LEGAL DESCRIPTION IS LOT 2-B, JOURNAL CENTER PHASE 2, UNIT 1. THE PROPERTY IS BOUNDED ON THE NORTH BY THE NORTH PINO ARROYO, TO THE EAST BY LOT 1, TO THE WEST BY LOT 2-A AND TO THE SOUTH BY MASTHEAD STREET NE. THIS LOT CONTAINS APPROXIMATELY 2.63 ACRES AND THE EASTERN 3/4 IS CURRENTLY DEVELOPED WITH AN EXISTING OFFICE/WAREHOUSE AND PAVING IMPROVEMENTS.

THERE IS CURRENTLY AN APPROVED MASTER GRADING AND DRAINAGE PLAN APPROVED BY THE CITY HYDROLOGY DEPARTMENT FOR LOT 2 WHICH IS NOW CONSIDERED LOT 2-A AND LOT 2-B DUE TO A RECENT REPLAT.

PROPOSED CONDITIONS
AS SHOWN BY THIS GRADING PLAN PREPARED FOR THIS SITE, THE INTENT IS TO SHOW THE PROPOSED GRADING FOR THE NEW ENTRY/PARKING LOT ALONG THE WESTERN 1/4 OF LOT 2-B COMPLYS WITH THE ORIGINAL LOT 2 APPROVED MASTER DRAINAGE PLAN, WHERE ALL FLOW FROM THESE IMPROVEMENTS WILL DISCHARGE TO THE NORTHWEST CORNER OF LOT 2-B AND DISCHARGE INTO AN EXISTING 2' WIDE CONCRETE SWALE THAT RUNS ALONG THE ENTIRE NORTH BOUNDARY OF LOT 2-A AND ULTIMATELY OUTFALLS INTO AN EXISTING RUNDOWN AT THE NORTHWEST CORNER OF LOT 2-A, WHICH DISCHARGES INTO THE AMAFCA MAINTAINED NORTH PINO.

DRAINAGE CALCULATIONS
1. PRECIPITATION ZONE = 2

2. DESIGN STORM = DEPTH (INCHES) AT 100-YEAR STORM
   6-HOUR = 2.35 INCHES
   24-HOUR = 2.75 INCHES
   10 DAY = 3.95 INCHES

3. PEAK DISCHARGE (CFS/ACRE) FIR 100-YEAR, ZONE 2, TABLE A-9:
   Q = 1.56 CFS/ACRE SOIL UNCOMPACTED "A"
   Q = 2.28 CFS/ACRE LANDSCAPED "B"
   Q = 3.14 CFS/AC COMPACTED SOIL "C"
   Q = 4.70 CFS/ACRE IMPERVIOUS AREA "D"
   FOR WATERSHEDS LESS THAN OR EQUAL TO 40 ACRES

4. EXCESS PRECIPITATION, E (INCHES), 6 HOUR STORM, ZONE 2, TABLE A-8:
   E = 0.53 INCHES SOIL UNCOMPACTED "A"
   E = 0.78 INCHES LANDSCAPED "B"
   E = 1.13 INCHES COMPACTED SOIL "C"
   E = 2.12 INCHES IMPERVIOUS AREA 'D"

5. PROPOSED CONDITIONS ONSITE:
   TOTAL AREA = 114,778SF = 2.63ACRES
   BASIN D-1
   IMPERVIOUS AREA EXISTING:
   EXISTING BUILDING ROOF AREA = 26,400SF = 0.61AC
   EXISTING EMPLOYEE PARKING LOT AREA, LOADING DOCK AREA AND SIDEWALK AREA = 55,750SF = 1.26AC
   EXISTING LANDSCAPING AREA = 7,650SF = 0.18AC

   IMPERVIOUS AREA PROPOSED,
   NEW PROPOSED PAVING AREA = 19,050SF = 0.44AC
   NEW LANDSCAPED AREA PROPOSED = 2,775SF = 0.06AC
   Q(PROPOSED-6HR) = (2.28 X 0.24) + (4.70 X 2.32)
   =11.45CFS PROPOSED ONSITE FLOW INTO NORTHWEST CORNER LOT 2-A
   V(PROPOSED-6HR) = ((0.78 X 0.24) + (2.12 X 2.32)) / 12 X 43,560
   =18,543CF = 0.43AC-FT PROPOSED VOLUME INTO NORTHWEST CORNER LOT 2-A

   BASIN D-2
   IMPERVIOUS AREA PROPOSED,
   NEW PROPOSED PAVING AREA = 2,125SF = 0.05AC
   NEW LANDSCAPED AREA PROPOSED = 1,400SF = 0.03AC

   Q(PROPOSED-6HR) = (2.28 X 0.03) + (4.70 X 0.05)
   =0.37CFS PROPOSED ONSITE FLOW INTO MASTHEAD STREET NE
   V(PROPOSED-6HR) = ((0.78 X 0.03) + (2.12 X 0.05)) / 12 X 43,560
   =470CF = 0.01AC-FT PROPOSED VOLUME INTO MASTHEAD STREET NE

7. SIZE RUNDOWN CURB OPENING AT NORTHWEST CORNER:
   Q(PROPOSED-6HR) = **11.45CFS PROPOSED ONSITE FLOW INTO NORTHWEST CORNER LOT 2-A**
   CHECK WEIR CAPACITY:
   Q(CAPACITY) = C X L X H**3/2
   L = Q /C X H**3/2
   Q = 11.45CFS, H = 0.5FEET, C = 3
   L = 11.45/(3 X 0.5**3/2) = 10.79FEET
   USE 11 FEET WIDTH > 10.79 FEET - OK

8. FIRST FLUSH STORM WATER CONTROL MEASURES PER ORDINANCE O-20130l6
   FOR THE PURPOSED OF THE ORDINANCE THE 90TH PERCENTILE STORM EVENT IS 0.44INCHES FROM IMPERVIOUS AREAS - 0.1" EVAPORATION = 0.34".
   V(FIRST FLUSH) = 0.34" X TREATMENT "D" = (0.34"/12"/') X 101,200SF
   = 2,867CF REQUIRED TO BE DETAINED FOR FIRST FLUSH
   V(PROVIDED AT NORTHWEST CORNER) = ((1,377SF) AT EL. 97.5 +(2985F) AT EL 94.0)/2 X 3.5 FEET DEPTH = **2,931CF PROVIDE**
   VOLUME PROVIDE = 2,931CF > 2,867CF REQUIRED - OK

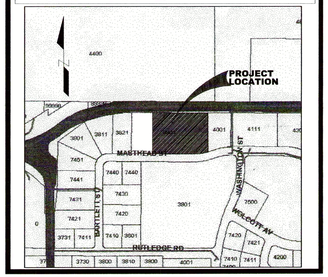
A REVISION 1 - ADDITIONS PER CITY COMMENTS DATED 9-26-18-Certification

GRAPHIC SCALE
20 0 20 40
(IN FEET)
1 inch = 10ft.

CONSTRUCTION NOTES:

1. CONSTRUCT 2' WIDE CONCRETE SWALE.
2. 11' WIDE WEIR OPENING IN CUTOFF WALL CENTERED OVER EXISTING CONCRETE SWALE ALLOW FLOWS TO DISCHARGE FROM THIS SITE TO ADJACENT LOT, DO NOT BLOCK FLOWS WITH WALL, SEE DETAIL THIS SHEET.
3. EXISTING 2' WIDE CONCRETE SWALE
4. SAWCUT AND REMOVE EXISTING 2' WIDE CONCRETE SWALE WITHIN POND LIMITS
5. CONSTRUCT NEW RETENTION POND PER GRADES SHOWN AT 2:1 SIDESLOPES ~~AT~~ WITH TOP OF POND ELEVATION = 97.50 FOR RETAINING FIRST FLUSH VOLUME.
   A WITH EAST & SOUTH SIDESLOPE S
   A NORTH AND WEST AT 3:1
6. HIGH POINT/WATER BLOCK.
7. 3' WIDE ADA RAMP AT 2% MAXIMUM CROSS SLOPE ALONG DRIVEWAY.
8. ADJUST MANHOLE RIM ELEVATION TO MATCH NEW SIDEWALK GRADE PER CITY STDS.
9. TRANSITION FROM 0" TO 6" CURB HEIGHT.
10. CONSTRUCT RETAINING WALL TO NEW GRADES SHOW, DESIGNED BY OTHERS.
11. TRANSITION FROM RETAINING WALL TO 6" CURB
12. CONSTRUCT 8" WIDE X 24" DEEP CUTOFF WALL PER CITY STD. DWG. 2415B AT SOUTH AND EAST SIDE OF NEW RETENTION POND.
13. PLACE 8" THICKNESS OF 3"-4" FRACTURED STONE WITH FILTER BLANKET UNDERNEATH STONE PER LIMITS SHOWN.
14. EXISTING PROPERTY LINE.
15. PLACE AND STAKE A 28' LONG WADDLE SOCK AT THE WEST END OF THE NEW CONCRETE CUTOFF WALL DURING CONSTRUCTION
    A REMOVE WHEN ALL CONSTRUCTION COMPLETE.

VICINITY MAP D-17



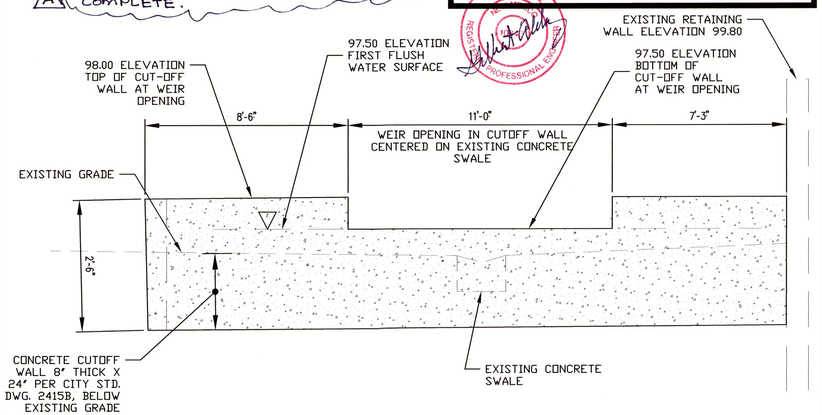
I, GILBERT ALDAZ, NMPE 10848, OF THE FIRM APPLIED ENGINEERING & SURVEYING, INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED SEPTEMBER 26, 2016. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY TIM S. MARTINEZ PS NO. 13982. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON JANUARY 16, 2017 AND 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 OCCUPANY.

(DESCRIBE ANY EXCEPTIONS AND/OR QUALIFICATIONS HERE IN A SEPARATE PARAGRAPH) ~~NON NOTED~~. SEE REVISION A

(DESCRIBE ANY DEFICIENCIES AND/OR REQUIRED CORRECTIONS HERE IN A SEPARATE PARAGRAPH) NONE NOTED.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND 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 PURPOSES.

Gilbert Aldaz 01-18-18
GILBERT ALDAZ, NMPE 10848 DATE



WEIR OPENING AT NW CORNER - LOOKING WEST

SCALE: N.T.S.

LEGEND

5098	PROPOSED ELEVATION GRADE
5100	EXISTING ELEVATION GRADE
	DRAINAGE FLOW DIRECTION
43.87TA	AS-BUILT NEW TOP OF CURB ELEVATION
43.37TE	AS-BUILT NEW FLOWLINE OF CURB ELEVATION
43.87TA	AS-BUILT NEW TOP OF ASPHALT ELEVATION
43.87SW	AS-BUILT NEW TOP OF SIDEWALK ELEVATION
TC=5098.31	EXISTING ELEVATION

FILE:

GILBERT ALDAZ STATE NEW MEXICO 10848 PROFESSIONAL ENGINEER
09-26-2016

DRAINAGE AND GRADING PLAN
3901 MASTHEAD STREET NE

APPLIED ENGINEERING AND SURVEYING, INC.
ENGINEERS AND PLANNERS
1605 Blair Drive NE Albuquerque, New Mexico 87112
Office: (505) 480-8125 galdaz47@yahoo.com

DATE/REVISIONS:
09/26/16 - City Comments
A 09/27/16 - City Comments

SHEET NUMBER:
1 OF 1

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: 3901 Masthead Street NE Building Permit #: _____ City Drainage #: D17/D095

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Lot 2-B, JOURNAL CENTER PHASE 2, UNIT 1

City Address: 3901 Masthead Street NE

Engineering Firm: APPLIED ENGINEERING & SURV INC Contact: GILBERT ALDAZ

Address: 1605 BLAIR DRIVE NE

Phone#: 480-8125 Fax#: _____ E-mail: galdaz47@yahoo.com

Owner: D. McCALL Contact: D. McCALL

Address: 703 OSUNA ROAD NE, SUITE 6

Phone#: 345-4444 Fax#: _____ E-mail: midwayleasing@comcast.net

Architect: TATE FISHBURN ARCH Contact: Tate

Address: P.O. BOX 2941, CORRALES, NM 87048

Phone#: 899-9338 Fax#: _____ E-mail: tatefishburn@msn.com

Other Contact: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

____ HYDROLOGY/ DRAINAGE
____ TRAFFIC/ TRANSPORTATION
____ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

X ENGINEER/ ARCHITECT CERTIFICATION

____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ DRAINAGE MASTER PLAN
____ DRAINAGE REPORT
____ CLOMR/LOMR

____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ EROSION & SEDIMENT CONTROL PLAN (ESC)

____ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ BUILDING PERMIT APPROVAL
X 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

____ PRE-DESIGN MEETING
____ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ____ Yes X No

DATE SUBMITTED: 01/19/2017 By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ___