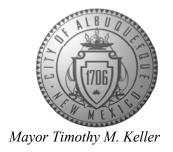
CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



November 19, 2020

Richard Dourte, P.E. RHD Engineering, LLC. 4305 Purple Sage Ave. NW Albuquerque, NM 87120

RE: B&D Industries

330 Altez St. SE

Permanent C.O. - Accepted

Engineer's Certification Date: 11/11/20

Engineer's Stamp Date: 10/4/19

Hydrology File: L20D071

Dear Mr. Dourte:

PO Box 1293 Based on the Certification received 11/12/20 and previous site visit on 07/17/20, this certification

is approved in support of Permanent Release of Occupancy by Hydrology.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Albuquerque

Sincerely,

NM 87103

Renée C. Brissette, P.E. CFM

Renée C. Brissette

Senior Engineer, Hydrology

www.cabq.gov
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: B&D Industries, Inc.		
DRB#:		
City Address: 330 Altez St. SE	10 Floighto	
Applicant: RHD Engineering, LLC Address: 4305 Purple Sage Ave. NW,		Contact: Richard Dourte
Phone#: 505.288.1621		E-mail: rhdengineering@outlook.com
Other Contact: Joe Simons Architecture		
Address: PO Box 67408, Albuquerque	e NM, 87193-7406	
Phone#:	_ Fax#:	E-mail: joe@simonsarchitecture.com
TYPE OF DEVELOPMENT: PLAT	(# of lots) RESIDENCE	DRB SITE X ADMIN SITE
IS THIS A RESUBMITTAL? Yes	No	
DEPARTMENT TRANSPORTATION	xHYDROLOGY/DRAINAGE	
TYPE OF SUBMITTAL: X ENGINEER/ARCHITECT CERTIFICATIO PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL XCERTIFICATE OF OCCUPANCY PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL 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) By: Richard Doute	
DATE SOCIALITIES		
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:	

FEE PAID:

DRAINAGE NARRATIVE:

1. THIS SITE IS LOCATED IN A FEMA FLOOD HAZARD ZONE X (REFER TO THE FIRM MAP 35001C0358H, EXCERPT ATTACHED).

2. THIS SITE IS IN A FREE DISCHARGE AREA.

3. LANDSCAPED AREA = 14% IMPERVIOUS AREA = 86%

4. THE VOLUME OF WATER GENERATED BY THIS SITE FOR SEE DRAINAGE CERTIFICATION contact New Mexico One Call, dial "811" [or (505) 260-1990] for THE 100YR 6HR RAIN FALL EVENT IS 4336CF. NOTE #3.

Project: BD Industries

Drainage Calculations - Zone 3

Acres % Total

0.000 0%

0.000 0%

0.463 100%

0.000 0%

V1440

2166

0.05

Acres % Total

0.000 0%

0.000 0%

0.064 14%

0.398 86%

0.463 100%

V1440

0.10

Storm Water Quality Ponding Requirement = Ap *0.34 in/12in/ft = 492 CF

The 100 year peak flows for this developed site is 2.2 CFS and the existing flows are 1.6 CFS for an increase of

0.6 CFS. The 100 year 6 hr volume increase is 3713-2166 = 1547CF.

0.463 100%

Excess Precipiation, E(inches) - 6 HR

Zone A B C D

1 | 0.44 | 0.67 | 0.99 | 1.97

2 0.53 0.78 1.13 2.12

3 0.66 0.92 1.29 2.36

4 0.80 1.08 1.46 2.64

Peak Discharge (CFS/ACRE) 100 YR

Zone A B C D

1 1.29 2.03 2.87 4.37

2 1.56 2.28 3.14 4.70

3 1.87 2.60 3.45 5.02

4 2.20 2.92 3.73 5.25

Design Flows (100YR) Area SQ. FT Acres Peak Discharge (CFS)

V10days

2166

0.05

Area SQ. FT Acres Peak Discharge (CFS)

7039

0.16

0.000

0.000

Total (CFS)

A= 0 0.000

B= 0 0.000

C= 2795 0.064

D= | 17352 | 0.398

Total (CFS)

0.05

0.13

Treatment

0.00

0.00

1.60

0.00

0.00

0.22

2.00

2.22

Treatment

5. THE FIRST FLUSH PONDING REQUIREMENT IS 492CF. THE PONDING PROVIDED IS 510CF, THUS THE PONDING PROVIDED IS GREATER THAN THE REQUIRED PONDING

Depth (inches) at 100yr Storm

Zone P60 P360 P1440 P4days P10days

1 1.87 2.20 2.66 3.12 3.67

2 2.01 2.35 2.75 3.30 3.95

3 2.14 2.60 3.10 3.95 4.90

4 2.23 2.90 3.65 4.70 5.95

Weighted E= ((EA*AA)+(EB*AB)+(Ec*Ac)+(ED*AD))/(AA+AB+Ac+AD)

/360=(Weighted E *AT)/12 in/ft

V1440= V360+AD*(P1440-P360)/12in/ft

V4days=V360+AD*(P4day-P360)/12in/ft

days=V360+AD*(P10days-P360)/12in/ft

20147

20147

0.05

2795

17352

20147

0.09

2.212

Weighted E=

Weighted E=

Cubic feet

Acre-ft

Total

Acre-ft

Private Drainage Facilities within City Right-of-Way

Notice to Contractor (Special Order 19 ~ "SO-19")

- 1. An excavation permit will be required before beginning any work within City Right-Of-Way.
- 2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- 3. Two working days prior to any excavation, the contractor must the location of existing utilities.
- 4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be
- resolved with a minimum amount of delay. 5. Backfill compaction shall be according to traffic/street use.
- 6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
- 7. Work on arterial streets may be required on a 24-hour basis.
- 8. Contractor must contact Augie Armijo at (505) 857-8607 and Construction Coordination at 924-3416 to schedule an inspection.

GENERAL NOTES:

- 1. THIS SITE IS LOCATED IN A FEMA FLOOD HAZARD ZONE X (REFER TO THE FIRM MAP 35001C0358H, EXCERPT ATTACHED).
- 2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTING/FOUNDATION.
- 3. GEOBRUGG TECCO STEEL MESH(OR EQUIV.) SHALL BE USED FOR SOIL STABILAZATION ON SLOPES GREATER THAN A 3:1 SLOPE, PER MANUFACTURER RECOMMENDATIONS.
- 4. MODIFICATIONS OR ADJUSTMENTS TO EXISTING DRAINAGE STRUCTURES/EROSION MITIGIATION IMPROVEMENTS SHALL BE DONE IN THE SAME MANNER AS THE ORIGINAL IMPROVEMENT.
- 5. ALL SWPPP REQUIREMENTS SHALL BE ADHERED TO.
- 6. RESEED GRADED AREAS (INCLUDING THE DRAINAGE SWALE) TO MITIGATE EROSION.
- 7. ALL WORK ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARDS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO WORK COMMENCING.
- 8. ALL WORK IN THE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARDS.
- 9. THE SURVEY INFORMATION WAS PROVIDED BY THE SURVEY OFFICE, INC.
- 10. CONSTRUCT 1-2' SIDEWALK CULVERT PER STD DWG. 2236 (SO-19 REQUIRED, SEE NOTES ON THIS SHEET INV. IN = 40.1, INV. OUT = 39.82± MATCH EXST. FL EXTEND STEEL COVER PLATE 1' PAST PROPERTY LINE, TACK WELD TIE DOWN BOLTS.

EROSION CONTROL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- 4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

WEIR CALCULATIONS

Q=CLH^3/2 C=3.2 L=2.0' H=0.5'

Q=3.2(2.0)((0.5)^1.5)= 2.3CFS PER SIDEWALK CULVERT

THIS SITE GENERATES 2.2CFS FOR THE 100YR, 6HR EVENT, THUS 1 SIDEWALK CULVERT IS

IMPROVEMENTS.

PROJECT LOCATION EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE は日本の日本 ACTUAL LOCATION OF UTILITIES & OTHER

VICINITY MAP

SNYDER

PROJECT LOCATION

SU-1

MH PARK

BOTTS

ADDN NO 3

LEGAL DESCRIPTION:

TRACT B, BLOCK 21, SKYLINE HEIGHTS BERNALILLO COUNTY, NEW MEXICO

FIRM MAP:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

L20-Z

AREA OF MINIMAL FLOOD HAZA

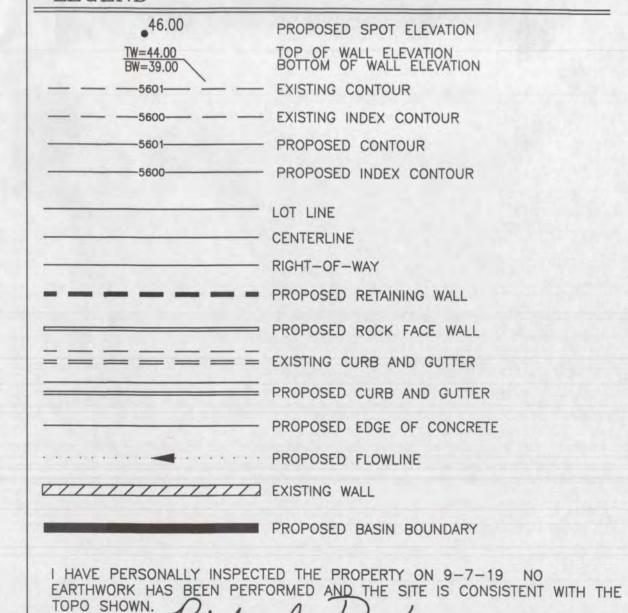
FM35001C0358H

DATE

2. RETAIN THE FIRST .34" OF STORM RUNOFF FROM ENTIRE DEVELOPMENT TO CONFORM TO THE WATER QUALITY REQURIEMENTS

LEGEND

P.E. #10854



ENGINEER'S DRAWN Title: B&D INDUSTRIES, INC. SEAL DATE GRADING AND DRAINAGE PLAN SHEET # RHD Engineering, LLE 4305 Purple Sage Ave. NW 10 - 04 - 19ALBUQUERQUE, NM 87120 (505) 288-1621 JOB # Richard Dourte

Richard Dourte P.E. #10854

ACOMA ROAD S.E CONSTRUCT 1-2' SDWK CULVERT, SEE NOTE #10 SET "+" IN CONCRETE EC=40.16 FL=39.75-SET #4 REBAR /ITH CAP PS 11463 TA=41.1 TA=41.2 VOLUME=510CF CONSTRUCT 2-2' TC=40.55 40.38 CURB OPENING TA=41.4 TA=41.5 TA=41.6 FL=39.90 TA=40.6 EC=40.59 o o r FL=39.95± TA=41.6 TA=40.7 TA=40.95 -TA=42.1 E Z RIGH C36, - TC=42.6 L T 50, TC=40.68-TC=42.6 TA=40.8 FL=40.04-EC=40.71-FP= 5442.20 CONSTRUCT NEW EF= 5442.70 32' DRIVEPAD FF 42.50 PER STD DWG 2425 FL=40.08± VACANT LAND TC=40.75-FL=40.14-TA=42.3 TA=42.5 EOC=40.81-ADJOINING BUILDING TA=41.15 TA=42.1 TC=42.6 -FF=5444.35 BUILDING CLEARS SET #4 REBAR TA=41.7 PROPERTY LINE BY ±0.39' TA=41.5 7 TA=41.6 WITH CAP PS 11463 TA=41.4 ~ TA=42.1 -TA=41.35 ¬ TA=42.0 FL=40.29-- TA=42.0 EC=41.05-TA=41.9 TA=43.0 TC=42.5 -METAL FENCE

-TC=42.56

-FL=41.92

IT-OF-WAY

LEC=43.09

-FL=42.86

DRAINAGE CERTIFICATION WITH SURVEY WORK BY PROFESSIONAL SURVEYOR DRAINAGE CERTIFICATION

I, Richard Dourte, NMPE 10854 OF THE FIRM RHD Engineering, LLC HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 10-04-19. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENTATION HAS BEEN OBTAINED BY ANTHONY HARRIS, NMPS 11463 OF THE FIRM THE SURVEY OFFICE. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 7/08/20 AND HAVE DETERMINEDBY 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 THE REQUEST FOR CO. (DESCRIBE ANY EXCEPTIONS AND /OR QUALIFICATIONS HERE IN A SEPARATE PARAGRAPH.) 1. THE CHANGES ARE IN RED.

2. THE DUMPSTER WAS RELOCATED. 3. DUE TO THE RELOCATION OF THE DUMPSTER, THE POND VOLUME DECREASED TO 365CF, THUS A DEFICIT OF 492-365=127CF EXISTS. COMPENSATION TO THE COA WILL BE REQUIRED.

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 DOCUMENTATION ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACOURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Richard Donto Richard Dourte, NMPE 10854 (seal)

11/11/20 Date

ELEVATION: 5418.71, NAVD 1988 LOCATED AT THE NE QUADRANT OF SUSAN AVE. AND GENERAL HODGES ST. SE TBM BENCH MARK INFORMATION: SD MANHOLE RIM IN BELL AVE, ELEVATION = 5440.35

BENCH MARK INFORMATION:

CITY OF ALBUQUERQUE STATION NO. "15_L20"

H

Scale 1" = 20'



Department of Municipal Development Street Maintenance Storm drain inspection

Street Maintenance Storm drain inspection Office (505)235-8016/Fax (505) 857-8042 Augustine Armijo storm division inspector

Date:	8-24-20	
То:	Ernest Armijo, Principal Engineer, PL-Planning Department	
From:	Augustine Armijo, Inspector, Street/Storm Maintenance 505-235-8016	
Return to:	N/A	
Details/De	escription of Document: 330 Altez	
Hydro # L20[0071	
I went out to	330 Altez SE on 8-11-20 contractor had to remove exsiting culvert and replace	
with a new or	ne following drawing 2236. The contractor replaced the culvert and it was up	
to the COA st	andard, it passed the inspection. The job was completed on 8-22-20.	

Date/Time Stamp and submit to DMD front desk for logging in and out.