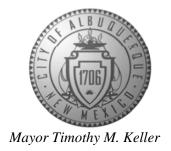
CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



July 17, 2020

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

RE: B&D Industries

9720 Bell Ave SE

Temporary C.O. - Accepted

Engineer's Certification Date: 07/10/20

Engineer's Stamp Date: 10/4/19

Hydrology File: L20D071

Dear Mr. Dourte:

PO Box 1293

Based solely on the Certification received 07/13/20, this certification is approved in support of Temporary Release of Occupancy by Hydrology. The following comments needs to be addressed prior to acceptance for Permanent C.O.

Albuquerque

NM 87103

www.cabq.gov

- 1. The sidewalk culvert must be inspected and approved by Storm Drain Maintenance (Augie Armijo at (505) 857-8607). I have already been in contact with him and I'm waiting for his inspection.
- 2. There appears to have been parking installed over the stormwater quality pond. This will need to be addressed and the as-built volume needs to be calculated. If the volume is less than what is required, than a payment-in-lieu will need to be paid.

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

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 6/2018)

Project Title: B&D Industries, Inc.	Building Pe	ermit #:	Hydrology File #: L20D071	
DRB#:	EPC#:		Work Order#:	
Legal Description: Tract B, Block 21, S	Skyline Heights			
City Address: 9720 Bell Ave. SE				
Applicant: RHD Engineering, LLC			Contact: Richard Dourte	
Address: 4305 Purple Sage Ave.	NW, Alb. NM,	87120		
Phone#: 505.288.1621	Fax#:		E-mail: rhdengineering@outlook.com	
Other Contact: Joe Simons Architecture	е		Contact: Joe Simons	
Address: PO Box 67408, Albuque	erque NM, 87193-7	7406		
Phone#:	Fax#:		E-mail: joe@simonsarchitecture.com	
TYPE OF DEVELOPMENT: PI	LAT (# of lots)	RESIDENCE _	DRB SITE X ADMIN SITE	
IS THIS A RESUBMITTAL?Y	Yes <u>x</u> No			
DEPARTMENT TRANSPORTATIO	ON <u>x</u> HYI	DROLOGY/DRAINA(GE	
Check all that Apply:		TYPE OF APPR	OVAL/ACCEPTANCE SOUGHT:	
TYPE OF SUBMITTAL:			PERMIT APPROVAL	
X ENGINEER/ARCHITECT CERTIFICA	ATION	X CERTIFICA	ATE OF OCCUPANCY	
PAD CERTIFICATION		PRELIMIN	ARY PLAT APPROVAL	
CONCEPTUAL G & D PLAN			FOR SUB'D APPROVAL	
GRADING PLAN			FOR BLDG. PERMIT APPROVAL	
DRAINAGE REPORT		FINAL PLA	AT APPROVAL	
DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERI	MIT ADDI IC			
ELEVATION CERTIFICATE	VIII THI LIC		ASE OF FINANCIAL GUARANTEE	
CLOMR/LOMR			ION PERMIT APPROVAL PERMIT APPROVAL	
TRAFFIC CIRCULATION LAYOUT ((TCL)	SO-19 APP		
TRAFFIC IMPACT STUDY (TIS)			ERMIT APPROVAL	
STREET LIGHT LAYOUT			PAD CERTIFICATION	
OTHER (SPECIFY)		<u> </u>	DER APPROVAL	
PRE-DESIGN MEETING?		CLOMR/LO	OMR	
		FLOODPLA	AIN DEVELOPMENT PERMIT	
		OTHER (SI	PECIFY)	
DATE SUBMITTED: 07/15/2020	By: <u></u>	ichard Down	te	
COA STAFF:	ELECTRONIC	C SUBMITTAL RECEIVED:		
	EEE DAID.			

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 THE 100YR 6HR RAIN FALL EVENT IS 4336CF.
- 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

Area

Cubic feet

Acre-ft

Total

Acre-ft

Weighted E=

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=

Project: BD Industries

Drainage Calculations - Zone 3

Acres % Total

0.000 0%

0.000 0%

0.463 100%

0.000 0%

0.463 100%

V1440

2166

0.05

Acres % Total

0.000 0%

0.000 0%

0.064 14%

0.398 86%

0.463 100%

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.

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

A= 0 0.000

C= 2795 0.064

D= 17352 0.398

Total (CFS)

0.000

0.05

0.13

Treatment

0.00

0.00

1.60

0.00

0.00

0.22

2.00

2.22

AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

1. THE CHANGES ARE IN RED.

Richard Dourte, NMPE 10854

7/10/20 Date

2. THE DUMPSTER WAS RELOCATED.

THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF THE REQUEST FOR CO.

(DESCRIBE ANY EXCEPTIONS AND /OR QUALIFICATIONS HERE IN A SEPARATE PARAGRAPH.)

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 ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED

Treatment

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 contact New Mexico One Call, dial "811" [or (505) 260-1990] for 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.
- 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.

Scale 1" = 20'

EXISTING UTILITIES ARE NOT SHOWN.

PROJECT LOCATION AREA OF MINIMAL FLOOD HAZA 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

L20-Z

FM35001C0358H

DATE

JOB #

LEGAL DESCRIPTION:

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

SNYDER

PROJECT LOCATION

SU-1

MH PARK

BOTTS

ADDN NO 3

FERGUSON

VICINITY MAP

FIRM MAP:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

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

LEGEND

46.00	PROPOSED SPOT ELEVATION	
TW=44.00 BW=39.00	TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION	
	- EXISTING CONTOUR	
— — —5600— — —	- EXISTING INDEX CONTOUR	
5601	- PROPOSED CONTOUR	
5600	PROPOSED INDEX CONTOUR	
	LOT LINE	
	- CENTERLINE	
	- RIGHT-OF-WAY	
	PROPOSED RETAINING WALL	
	PROPOSED ROCK FACE WALL	
======	EXISTING CURB AND GUTTER	
	PROPOSED CURB AND GUTTER	
	- PROPOSED EDGE OF CONCRETE	
	PROPOSED FLOWLINE	
7//////////////////////////////////////	Z EXISTING WALL	
	PROPOSED BASIN BOUNDARY	

ENGINEER'S SEAL	Title: B&D INDUSTRIES, INC.	DRAWN BY
ARD H. DOW	9720 BELL AVE. SE	DATE
REG 10854 O KE	GRADING AND DRAINAGE PLAN	D.dwg
Jon San San San San San San San San San Sa	RHD Services SOO	SHEET #

HAVE PERSONALLY INSPECTED THE PROPERTY ON 9-7-19 NO

EARTHWORK HAS BEEN PERFORMED AND THE SITE IS CONSISTENT WITH THE

10 - 04 - 19

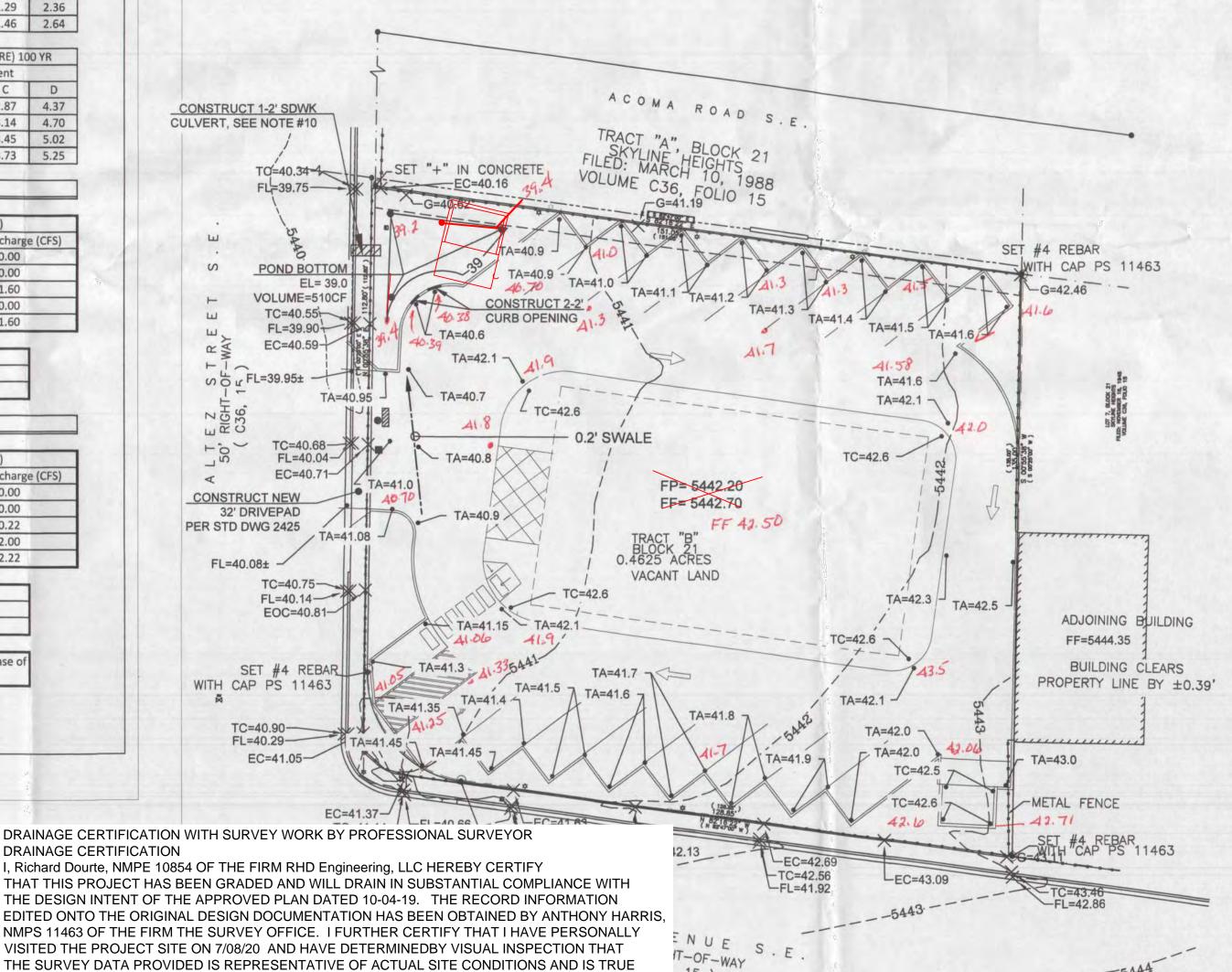
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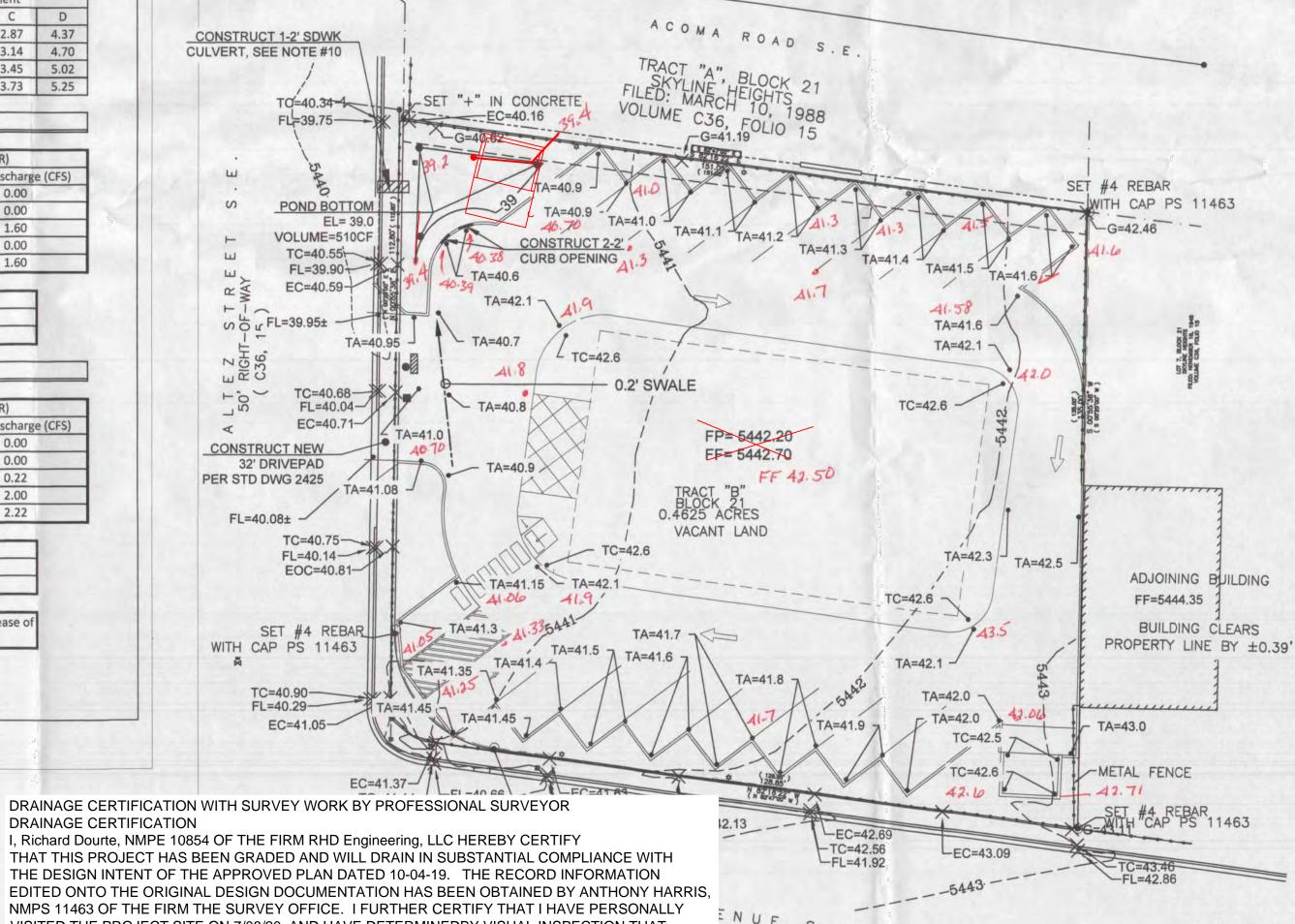
KHI Engineering, LLE 4305 Purple Lage Ave. NW ALBUQUERQUE, NM 87120 (505) 288-1621

Richard Dourte P.E. #10854

Richard Dourte P.E. #10854

TBM BENCH MARK INFORMATION: SD MANHOLE RIM IN BELL AVE, ELEVATION= 5440.35





BENCH MARK INFORMATION: CITY OF ALBUQUERQUE STATION NO. "15 L20" ELEVATION: 5418.71, NAVD 1988 LOCATED AT THE NE QUADRANT OF SUSAN AVE. AND GENERAL HODGES ST. SE