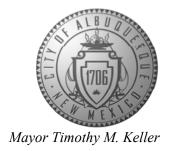
CITY OF ALBUQUERQ

Planning Department Brennon Williams, Director



May 13, 2021

David Soule, P.E. **Rio Grande Engineering** P.O. Box 93924 Albuquerque, NM 87199

RE: 2113 Coal Ave. SE

> **Grading and Drainage Plan** Engineer's Stamp Date: 03/04/21

Hydrology File: K15D106

Dear Mr. Soule:

Based upon the information provided in your submittal received 03/09/2021, the Grading and Drainage Plan is approved for Grading Permit.

PO Box 1293

Once the grading is complete, a pad certification will be required prior to release of Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit

processing along with a copy of this letter and the pad certification approval letter.

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

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

www.cabq.gov

Albuquerque

NM 87103

Sincerely,

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

Renée C. Brissette



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

DRB#:LOT 17, BLOCK 6	EPC#:	Contact:
Other Contact: RIO GRANDE ENGINE Address: PO BOX 93924 ALB NM Phone#: 505.321.9099	ERING 87199 Fax#: 505.872.0999	Contact: DAVID SOULE E-mail: david@riograndeengineering.com
TYPE OF DEVELOPMENT: PLAT Check all that Apply:	RESIDENCE D	RB SITE X ADMIN SITE
DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION	<u>x</u> BUILDING	OVAL/ACCEPTANCE SOUGHT: PERMIT APPROVAL TE OF OCCUPANCY
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING? IS THIS A RESUBMITTAL?: YesX No DATE SUBMITTED: YesX No	SITE PLAN SITE PLAN SITE PLAN FINAL PLA SIA/ RELEA PPLIC FOUNDATI GRADING I SO-19 APPE PAVING PE GRADING/ WORK ORD CLOMR/LO FLOODPLA OTHER (SP	ASE OF FINANCIAL GUARANTEE ON PERMIT APPROVAL PERMIT APPROVAL ROVAL ERMIT APPROVAL PAD CERTIFICATION ER APPROVAL MR IN DEVELOPMENT PERMIT ECIFY)
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:_	
	FEE PAID:	

Brissette, Renee C.

From: David Soule <david@riograndeengineering.com>

Sent: Wednesday, May 12, 2021 10:32 AM

To: Brissette, Renee C.

Subject: RE: 2113 COAL GRADING PLAN SUBMITTAL

Attachments: alley facing east at west property corner.jpeg; pic of alley and buena vista.jpg; picture facing east

200' west of site.jpeg; facing west 200' east of site.jpeg

Follow Up Flag: Follow up Flag Status: Flagged

External

Renee, The surveyor did not pick up additional alley shots. I have attached pictures from a site visit. The alley slopes from east to west discharging to Buena vista west of this site. The alley grading is not consistent, but with fencing and grades all the flow stays withing the alley, the grade of alley adjacen to this site is 1.6% David

From: Brissette, Renee C. [mailto:rbrissette@cabq.gov]

Sent: Thursday, March 25, 2021 10:09 AM

To: David Soule

Subject: RE: 2113 COAL GRADING PLAN SUBMITTAL

Importance: High

David,

I need the following information prior to approving this project. Please let me know. Also please change your address to Coal Place SW. Coal Ave diverts to the south prior to the site.

Alley survey information????? I need existing grade information at least 20 feet east and west of the prope lines. I think the alley slopes to the west but I need so confirmation. Also what is the condition of the alley a this location? I know further to the east the alley is ok further to the west the alley is ok. However right here looks like gravel which would have to be brought up to City standards. INSTALL 4" PVC RESTRICTOR PIRE IN WALL INV. = 5162.50 ALLEY LOT OUTFALL @ 5162.46 5162.55 COMPACTED GRAVEL! **PARKIKNG** NSTALL CONCRTETE BLOCK **NALL @ PROPERTY LINE FOP WALL = 5163.00**



RENÉE CHRISTINA BRISSETTE, PE CFM

senior engineer, hydrology

CONTINUE WALL ALONG

DARKING AREA TO CREATE

o 505.924.3995

e rbrissette@cabq.gov

cabq.gov/planning

From: David Soule <david@riograndeengineering.com>

Sent: Saturday, March 6, 2021 2:19 PM

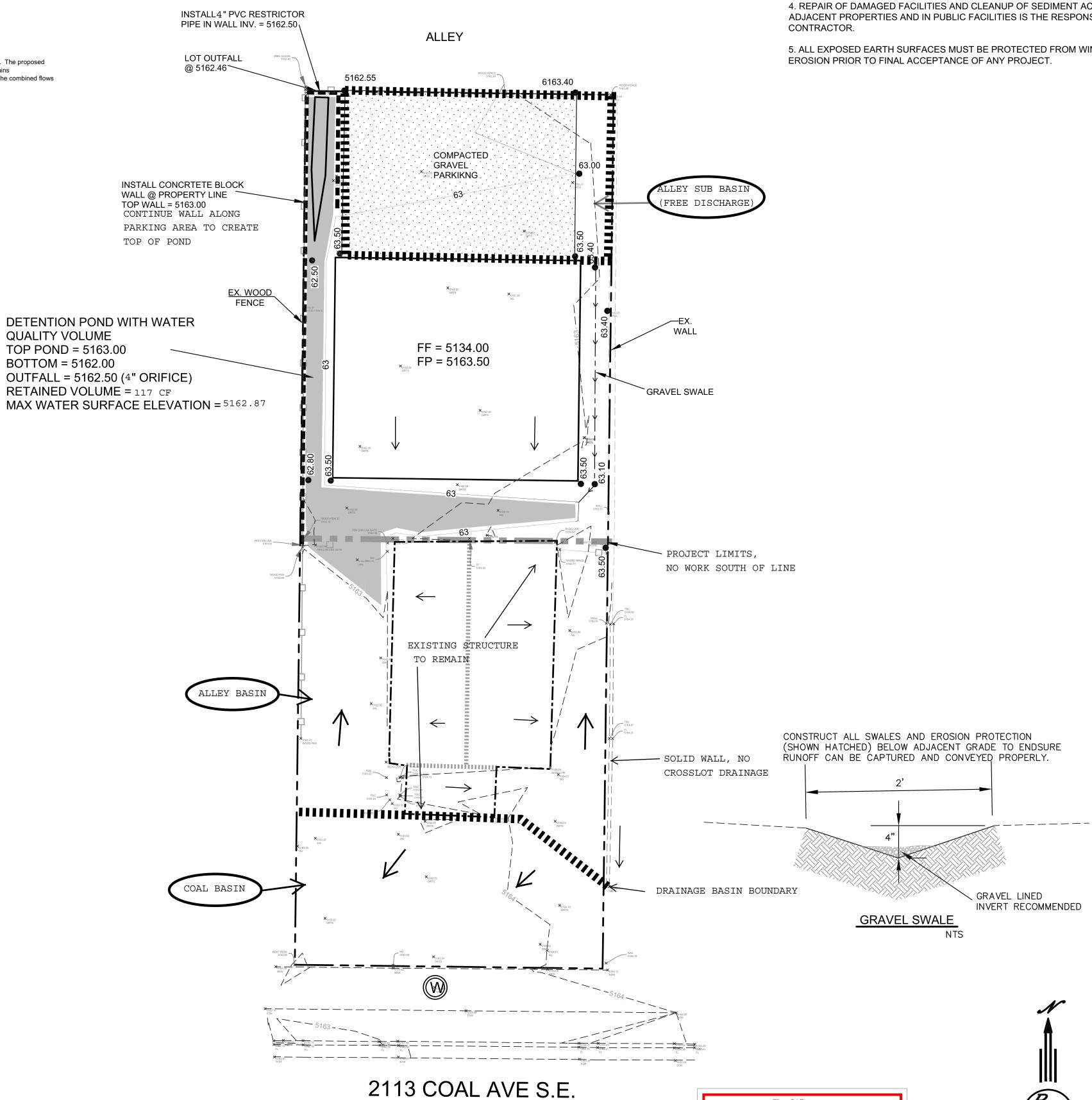
To: Planning Development Review Services <PLNDRS@cabq.gov>

Subject: 2113 COAL GRADING PLAN SUBMITTAL



This message has been analyzed by Deep Discovery Email Inspector.

BASIN DATA EXISTING TO ALLEY PROPOSED TO COAL PROP TO ALLEY-ROUTED 4776.00 PROP TO ALLEY-ROUTED 4776.00 0.110 0% 0 8% 0.009 36% 0.0395 56% 0.061 PROP TO ALLEY-FREE 1170.00 0.027 0% 0 10% 0.000 90% 0.0242 0% 0.000 TOTAL EXISTING TOTAL PROPOSED FIRST FLUSH(REDEVELOPMEENT (0.26" PER SF IMP) SITE DISCHARGE CALCULATED UTILIZING AHYMO. THE DETENTION POND HAS DIFFERENT TP THEREFORE THE CUMULATIVE DISCHARGE IS SLIGHTLY LESS THAT THE SUMMATION OF EACH BASIN The subject property is located within a fully developed area of SE Albuquerque. All down stream drainage improvements have been completed. This is a redevelopment of an site that discharges 0.50 surrounding properties(.09 CFS to coal/.41cfs to alley). The proposed improvements will maintain the same basins, the basin draining to the alley will contain a sub basin. The proposed improvments will allow the coal basin to remain unchanged and discharge .09 cfs to Coal. The majority of the basin draining to the alley will be routed through a detention basin that retains 117 cf for water quality and discharges the remainder via a 4" orifice at a peak rate of .21 cfs the remainder of the alley basin is the parking areas that free dischare .09 cfs to the alley. The combined flows leaving the site will be .33 cfs with .09 cfs going to coal and the remainder to the alley. The proposed discharge is less than historic and the required water quality volume is retained.



(60' R-W)

CAUTION:

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 ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

EROSION CONTROL NOTES:

City of Albuquerque Planning Department Development Review Services

HYDROLOGY SECTION

APPROVED

05/13/21 Brisselt

- 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
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER



VICINITY MAP: K-15-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 17 BLOCK 6 BUENA VISTA HEIGHTS CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

ADDN 59-99-196

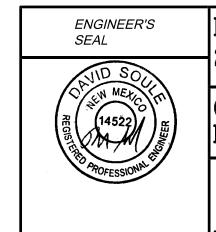
- 1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- 2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- 3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD

- 5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING

LEGEND

	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
XXXX -	PROPOSED CONTOUR
XXXX-	PROPOSED INDEX CONTOUR
× XXXX	EXISTING SPOT ELEVATION
● XXXX	PROPOSED SPOT ELEVATION
	BOUNDARY
	ADJACENT BOUNDARY
=========	EXISTING CURB AND GUTTER
	PROPOSED GRAVEL SWALE
	PROPOSED RETAINING WALL
	PROPOSED GRAVEL
	PROJECT LIMITS



DRAINAGE PLAN

LOT 17 BLOCK 6 BUENA VISTA HTS 2113 COAL AVE. GRADING AND

DRAWN

 BY DEM

DATE

2-25-21

OT 17 BLOCK 6 BUENA VISTA HTS.DWG

SHEET#

1 OF 2

JOB#

Rio Grande Lingineering PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9099

DAVID SOULE P.E. #14522

SCALE: 1"=10'

3/4/21



BASIN DATA

Basin	Area	Area	Treatment A		Treatment B		Treatment C		Treatment D		Q100	Q100
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	GENERATED	DISCHARGED
EXISTING TO COAL	1160.00	0.027	0%	0	14%	0.004	80%	0.0213	6%	0.002	0.09	0.09
EXISTING TO ALLEY	5946.00	0.137	0%	0	41%	0.056	40%	0.0546	19%	0.026	0.41	0.41
PROPOSED TO COAL	1160.00	0.027	0%	0	14%	0.004	80%	0.0213	6%	0.002	0.09	0.09
PROP TO ALLEY-ROUTED	4776.00	0.110	0%	0	8%	0.009	36%	0.0395	56%	0.061	0.41	0.21
PROP TO ALLEY-FREE	1170.00	0.027	0%	0	10%	0.000	90%	0.0242	0%	0.000	0.09	0.09
TOTAL EXISTING												0.5
TOTAL PROPOSED												0.33*

FIRST FLUSH(REDEVELOPMEENT (0.26" PER SF IMP)

33.471 required 117.000 provided

* SITE DISCHARGE CALCULATED UTILIZING AHYMO. THE DETENTION POND HAS DIFFERENT TP THEREFORE THE CUMULATIVE DISCHARGE IS SLIGHTLY LESS THAT THE SUMMATION OF EACH BASIN

The subject property is located within a fully developed area of SE Albuquerque. All down stream drainage improvements have been completed. This is a redevelopment of an site that discharges 0.50 surrounding properties (.09 CFS to coal/.41cfs to alley). The proposed improvements will maintain the same basins, the basin draining to the alley will contain a sub basin. The proposed improvments will allow the coal basin to remain unchanged and discharge .09 cfs to Coal. The majority of the basin draining to the alley will be routed through a detention basin that retains

117 cf for water quality and discharges the remainder via a 4" orifice at a peak rate of .21 cfs the remainder of the alley basin is the parking areas that free dischare .09 cfs to the alley. The combined flows leaving the site will be .33 cfs with .09 cfs going to coal and the remainder to the alley. The proposed discharge is less than historic and the required water quality volume is retained.

POND STAGE-STORAGE

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME CUMULATIVI	VOLUME AC-FT	Q (CFS)
	,					
62.00	0.00	44.00	0	0	0.000	0.00
62.50	0.00	425.00	117.25		0.001	0.00
63.00	0.40	654.00	269.75	387	0.009	0.27

Orifice Equation Q = CA SQRT(2gH)

C =Diameter (in) Area $(ft^2)=$ H(Ft) =

Q (CFS)=

0.6 0.087266463 32.2 Depth of water above center of orifice

2.5078 2.5089 2.5099 2.5110 2.5120 2.5130 2.5141 2.5151 2.5161 2.5172 2.5182 2.5192 2.5202 2.5212 2.5222 2.5232 2.5242 2.5252 2.5252 2.5262 2.5271 2.5281 2.5350 2.5360 2.5360 2.5360 2.5370 2.5389 2.5348 2.5467 2.5475 2.5365 2.5366 2.5367 2.5368 2.5369 2.5379 2.5348 2.5467 2.5475 2.5482 2.5443 2.5440 2.5449 2.5458 2.5467 2.5475 2.5484 2.5493 2.5502 2.5510 2.5519 2.5527 2.5536 2.5544 2.5545 2.5566 2.5560 2.5561 2.5569 2.5578 2.5566 2.5564 2.5566 2.5664 2.5667 2.5668 2.5668 2.5666 2.5664 2.5668 2.5664 2.5664 2.5668 2.5669 2.5679 2.5799 2.5806 2.5806 2.5802 2.5809 2.5912 2. AHYMO PROGRAM (AHYMO-S4) - Version: S4.01a - Rel: 01a
RUN DATE (MON/DAY/YR) = 03/06/2021
START TIME (HR:MIN:SEC) = 13:44:48 USER NO.=
RioGrandeSingleA41963517 NIOGI aliuesiiigileA4120331/ INPUT FILE = ocuments and Settings\Owner\Desktop\2021 JOBS\202130-2113coal\pondrout030621.txt TIME=0.0 PUNCH CODE=0 TYPE=2 QUARTER=0.0 ONE= 1.80 IN SIX=2.27 IN DAY= 2.63 IN DT = 0.05 HR K = 0.075210HR TP = 0.138000HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428 UNIT PEAK = 0.15454 CFS UNIT VOLUME = 0.9307 B = 526.28 P60 = 1.8000 AREA = 0.000041 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTION
DT = 0.050000 HOURS
0.0000 0.0031 0.0064 0.0098 0.0136 0.0136 0.0174 0.0218
0.0280 0.0377 0.0481 0.0589 0.0707 0.0827 0.0950
0.1077 0.1206 0.1350 0.1499 0.1661 0.1889 0.2149
0.2488 0.2893 0.3381 0.4092 0.1661 0.1889 0.2149
1.1367 1.3736 1.5604 1.6542 1.7365 1.9566 1.8427
1.1367 1.3736 1.5004 1.6542 1.7365 1.9969 2.0105
2.0823 2.0349 2.0451 2.0552 2.0657 2.0740 2.0782
2.0233 2.0349 2.0452 2.0552 2.0657 2.0740 2.0782
2.0823 2.0879 2.1416 2.1562 2.1562 2.1672 2.1782
2.1167 2.1399 2.1146 2.1262 2.1492 2.1022 2.1311
2.1567 2.1399 2.1416 2.1262 2.1492 2.1222 2.1311
2.1567 2.1391 2.1466 2.1692 2.1692 2.1722 2.1311
2.1567 2.1391 2.1466 2.1692 2.1722 2.1311
2.1567 2.1391 2.1362 2.1262 2.1492 2.1222 2.1312
2.1518 2.1690 2.1638 2.1666 2.1692 2.1722 2.1312
2.1951 2.1294 2.2164 2.2208 2.2223 2.2251
2.2273 2.2294 2.2011 2.2055 2.2049 2.2072 2.2096
2.2118 2.141 2.2164 2.2186 2.208 2.2230 2.2251
2.2273 2.2294 2.2315 2.2336 2.2356 2.2377 2.2397
2.2417 2.2437 2.2457 2.2477 2.2496 2.2515 2.2535
2.2554 2.2570 2.2718 2.2736 2.2753 2.2771 2.2789
2.2806 2.2824 2.2591 2.2610 2.2628 2.2648 2.2664 2.2664
2.2682 2.2700 2.2718 2.2736 2.2753 2.2771 2.2789
2.3048 2.3065 2.3082 2.3099 2.3116 2.3133 2.3149
2.3166 2.3183 2.3199 2.3216 2.3333 2.3349 2.3366
2.3312 2.3396 2.3412 2.3428 2.3444 2.3460 2.3476 2.3491
2.3396 2.3412 2.3428 2.3444 2.3460 2.3476 2.3491
2.3396 2.3412 2.3428 2.3444 2.3460 2.3476 2.3491
2.3396 2.3412 2.3428 2.3444 2.3460 2.3476 2.3491
2.3396 2.3412 2.3428 2.3444 2.3460 2.3476 2.3491
2.3396 2.3412 2.3428 2.3444 2.3460 2.3476 2.3491
2.3422 2.3998 2.3997 2.3156 2.3333 2.3349 2.3366
2.3312 2.3448 2.3659 2.3682 2.3099 2.3116 2.3133 2.3499
2.3166 2.3183 2.3999 2.316 2.3333 2.3349 2.3466
2.3382 2.3444 2.3460 2.3476 2.3488 2.3990 2.3918
2.3396 2.3412 2.3428 2.3448 2.3460 2.3476 2.3491
2.3422 2.3446 2.4462 2.4462 2.4664 2.4666 2.4664 2.4666 2.4664 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 2.4666 24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE K = 0.123007HR TP = 0.138000HR K/TP RATIO = 0.891358 SHAPE

CONSTANT, N = 3.978394
 UNIT PEAK = 0.44283 CFS UNIT VOLUME = 0.9712 B = 353.73

P60 = 1.8000
 AREA = 0.000173 SQ MI IA = 0.42593 INCHES INF = 1.04259

INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 K = 0.075210HR TP = 0.138000HR K/TP RATIO = 0.545000 SHAPE
CONSTANT, N = 7.106428
UNIT PEAK = 0.95209E-02CFS UNIT VOLUME = 0.8928 B = 526.28
P60 = 1.8000
AREA = 0.000002 SQ MI IA = 0.10000 INCHES INF = 0.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 PARTIAL HYDROGRAPH 102.00 TIME FLOW TIME FLOW TIME FLOW FLOW HRS CFS HRS RUNOFF VOLUME = 1.19459 INCHES = 0.0136 ACRE-FEET
PEAK DISCHARGE RATE = 0.41 CFS AT 1.500 HOURS BASIN AREA = 0.0002 SQ. MI. PARTIAL HYDROGRAPH 101.00 TIME FLOW TIME FLOW TIME FLOW
HRS CFS HRS CFS
0.000 0.0 0.450 0.0
1.350 0.05 0.0 0.600 0.0 1.050 0.0 (HRS) (CFS) (FEET) (AC-FT) (CFS) (HRS) (CFS) (FEET) (AC-FT) (CFS)

0.00 0.00 0.00 62.50 0.001 0.00
0.15 0.00 62.50 0.001 0.00
0.30 0.00 62.50 0.001 0.00
0.36 0.00 62.50 0.001 0.00
0.65 0.00 62.50 0.001 0.00
0.75 0.00 62.50 0.001 0.00
0.75 0.00 62.50 0.001 0.00
0.75 0.00 62.50 0.001 0.00
0.75 0.00 62.50 0.001 0.00
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0.75 0.00 62.50 0.001 0.00
0.75 0.00 62.50 0.001 0.00
0.75 0.00 0.00 62.50 0.001 0.00
0.75 0.00 0.00 62.51 0.001 0.00
0.75 0.00 0.04 62.53 0.001 0.00
1.55 0.04 62.53 0.001 0.02
1.50 0.41 62.72 0.005 0.12
1.50 0.41 62.72 0.005 0.12
1.65 0.26 62.87 0.007 0.19
1.95 0.06 62.79 0.006 0.15
2.10 0.03 62.72 0.006 0.15
2.10 0.03 62.72 0.006 0.15
2.25 0.02 62.65 0.003 0.08
2.40 0.01 62.61 0.003 0.06
2.55 0.01 62.58 0.002 0.04
2.70 0.00 62.55 0.002 0.04
2.70 0.00 62.55 0.002 0.03
2.85 0.00 62.54 0.002 0.03
3.80 0.00 62.51 0.001 0.01
3.15 0.00 62.51 0.001 0.01
3.30 0.00 62.51 0.001 0.01
3.45 0.00 62.51 0.001 0.01
3.45 0.00 62.51 0.001 0.01
3.45 0.00 62.51 0.001 0.01
3.45 0.00 62.51 0.001 0.01
3.45 0.00 62.51 0.001 0.01
3.45 0.00 62.51 0.001 0.01
3.45 0.00 62.51 0.001 0.01
3.45 0.00 62.51 0.001 0.01
3.46 0.00 62.51 0.001 0.01
3.47 MAXIMUM WATER SURFACE ELEVATION = 62.877
MAXIMUM WATER SURFACE ELEVATION = 62.877
MAXIMUM STORAGE = 0.0070 AC-FT INCREMENTAL TIME= 0.050000HRS PARTIAL HYDROGRAPH 103.00 RUNOFF VOLUME = 1.01612 INCHES = 0.0023 ACRE-FEET PEAK DISCHARGE RATE = 0.09 CFS AT 1.500 HOURS BASIN AREA = 0.0000 SQ. MI. * TOTAL EXISTING DISCHARGE
ADD HYD ID=6 HYD NO=106 ID I=1 ID II=2
PRINT HYD ID=6 CODE=3 K = 0.075210HR TP = 0.138000HR K/TP RATIO = 0.545000 SHAPE

CONSTANT, N = 7.106428

DESCRIPTION OF THE PEAK = 0.36586 CFS UNIT VOLUME = 0.9706 B = 526.28

DESCRIPTION OF THE PEAK = 0.000096 SQ MI IA = 0.10000 INCHES INF = 0.04000

INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 RUNOFF VOLUME = 1.76992 INCHES = 0.0162 ACRE-FEET
PEAK DISCHARGE RATE = 0.41 CFS AT 1.500 HOURS BASIN AREA = 0.0002 SQ. MI. K = 0.113892HR TP = 0.138000HR K/TP RATIO = 0.825303 SHAPE

CONSTANT, N = 4.325547

P60 = 1.8000

AREA = 0.20556 CFS UNIT VOLUME = 0.9425 B = 376.32

P60 = 1.8000

AREA = 0.000075 SQ MI IA = 0.37727 INCHES INF = 0.90636

INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 RUNOFF VOLUME = 1.09865 INCHES = 0.0149 ACRE-FEET
PEAK DISCHARGE RATE = 0.50 CFS AT 1.500 HOURS BASIN AREA = 0.0003 SQ. MI. * ROUTE BASIN PROPOSED TO ALLEY THRU DETENTION 0.050000 * ROUTE THE TOTAL FLOW THROUGH THE PROPOSED RESERVOIR ROUTE RESERVOIR $1D-5 + \text{HYD NO}=105 \cdot \text{INFLOW}=4 \cdot \text{CODE}=3 \cdot \text{OUTFLOW}(CFS) \cdot \text{STORAGE}(AC-FT) = \text{ELEV}(FT) \cdot 0.00 \cdot 0.001 \cdot 62.50 \cdot 0.27 \cdot 0.009 \cdot 63.00$ PRINT HYD ID=4 CODE=3 * TOTAL PROPOSED DISCHARGE
ADD HYD ID=7 HYD NO=107 ID I=1 ID II=3
ADD HYD ID=8 HYD NO=108 ID I=7 ID II=5
PRINT HYD ID=8 CODE=3 PARTIAL HYDROGRAPH 104.00 TIME FLOW TIME FLOW TIME FLOW

TIME FLOW TIME FLOW

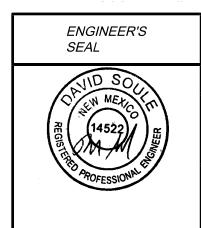
HRS CFS HRS CFS

0.000 0.0 0.0 3.450 0.0 6.900 0.0

10.350 0.0 13.800 0.0 PARTIAL HYDROGRAPH 108.00 * * * * * * * * * * * * * * * * TIME FLOW TIME FLOW TIME FLOW
TIME FLOW TIME FLOW TIME INFLOW ELEV VOLUME OUTFLOW Page 6

10.650 10.800 10.950 11.100 11.400 11.550 11.850 12.000 12.150 12.300 12.450 12.600 12.750 12.900 13.050 13.350 13.500 RUNOFF VOLUME = 1.49902 INCHES = 0.0204 ACRE-FEET
PEAK DISCHARGE RATE = 0.33 CFS AT 1.600 HOURS BASIN AREA = 0.0003 SQ. MI. NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 13:44:48

Page 7



LOT 17 BLOCK 6 BUENA VISTA HTS 2113 COAL AVE.

GRADING AND DRAINAGE PLAN

> Rio Grande Engineering PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9099

DRAWN BY DEM

DATE

2-25-21

OT 17 BLOCK 6 BUENA VISTA HTS.DWG

SHEET#

2 OF 2

JOB#

DAVID SOULE P.E. #14522

3/4/21