CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

October 23, 2023

Phillip W. Clark, PE
Clark Consulting Engineers
19 Ryan Rd
Edgewood, NM 87015

RE: Home 2 Suites Hotel
3021 University Blvd SE
Permanent C.O. – Accepted
Engineer's Certification Date: 10/12/23
Engineer's Stamp Date: 10/27/21
Hydrology File: M15D047

Dear Mr. Clark:

Based on the Certification received 10/17/2023 and site visit on 10/20/2023, this letter serves as a "green tag" from Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

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

Sincerely,

Renée C. Brissette

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: HOME 2 SUITES HOTEL Building Permit #: _____ Hydrology File #: M-15/D047

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

Legal Description: LOT 3-A-2-A

City Address: 3021 Flightway Ave SE

Applicant: CLARK CONSULTING ENGINEERS Contact: PHIL

Address: _____

Phone#: 281-2444 Fax#: xxxxx cell / txt 264.6042 E-mail: CCEalbq@aol.com

Other Contact: Nimesh (Nick) Patel Contact: (512)619-6467

Address: _____

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

TYPE OF DEVELOPMENT: ___ PLAT ___ RESIDENCE X DRB SITE ___ ADMIN SITE

Check all that Apply:

DEPARTMENT:

X HYDROLOGY/ DRAINAGE

___ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

X ENGINEER/ CERTIFICATION

___ PAD CERTIFICATION

___ CONCEPTUAL G & D PLAN

X GRADING PLAN

___ DRAINAGE REPORT

___ DRAINAGE MASTER PLAN

___ FLOODPLAIN DEVELOPMENT PERMIT APPLIC

___ ELEVATION CERTIFICATE

___ CLOMR/LOMR

___ TRAFFIC CIRCULATION LAYOUT (TCL)

___ TRAFFIC IMPACT STUDY (TIS)

___ STREET LIGHT LAYOUT

___ OTHER (SPECIFY) _____

___ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: ___ Yes X No

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

___ FLOODPLAIN DEVELOPMENT PERMIT

___ OTHER (SPECIFY) _____

DATE SUBMITTED: 10/16/23 By: PWC

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

GRADING & DRAINAGE PLAN

THE BUSINESS PARK ZONED PROJECT IS LOCATED IN THE DEVELOPED SUNPORT PARK SUBDIVISION (AIRPORT AREA) APPROX. 2 MILES SOUTH OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE CITY OF ALBUQUERQUE FLOOD HAZARD ORDINANCE, AND THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR EXCAVATION AND GRADING & SUBSEQUENT BUILDING PERMIT. THE PLAN SHOWS:

1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS: INCLUDING SURFACE UTILITIES/EASEMENTS.
2. PROPOSED IMPROVEMENTS: 85% IMPERVIOUS HOTEL SITE DEVELOPMENT, NEW GRADE ELEVATIONS, RETAINING WALLS, 2– DRIVE ENTRANCES, AND EROSION CONTROL.
3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
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HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF–SITE DRAINAGE FLOWS.

FREE DISCHARGE OF DEVELOPED FLOW IS ACCEPTABLE SINCE DOWNSTREAM CAPACITY EXISTS WITHIN THE OVERALL MASTERPLAN FOR THE SUNPORT PARK REGIONAL AREA. RUNOFF WILL NOT BE ALLOWED TO CONCENTRATE AT THE WEST PROPERTY BOUNDARY. THE OVERALL BASIN SHALL DRAIN TO THE SW TO THE EXPANDED SIDEWALK CULVERT(S) LOCATED AT THE SW CORNER, WITH THE ROUTING OF SITE RUNOFF THRU DEPRESSED LANDSCAPING AREAS.

Scale: 1" = 20'

AS-CONSTRUCTED

I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH THE LAWS IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE GRADING AND DRAINAGE IMPROVEMENTS INDICATED ON THE PLAN WERE CONSTRUCTED AS SHOWN, AND COMPLIES WITH THE DESIGN INTENT OF THE APPROVED PLAN.

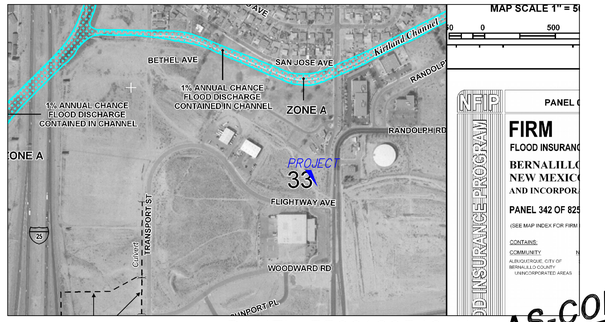
PHILIP W. CLARK, P.E. #10265 10/12/23

SEE GRADES, SHEET 2

PHILIP W. CLARK NEW MEXICO 10265 REGISTERED PROFESSIONAL ENGINEER

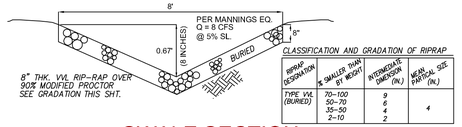
FIRM MAP

PANEL 35001C0342 H



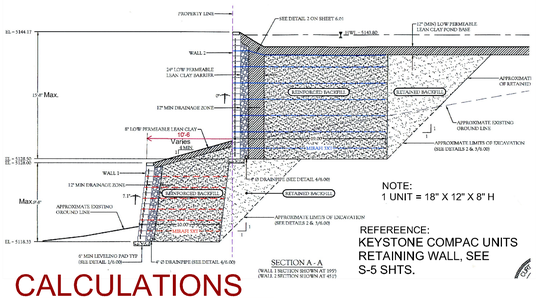
SWALE SECTION

NO SCALE



RPCC RETAINING WALL SECTION

NO SCALE



NOTE:
1 UNIT = 18" X 12" X 8" H

REFEREENCE:
KEYSTONE COMPAC UNITS RETAINING WALL, SEE S-5 SHTS.

CALCULATIONS

DESIGN CRITERIA

NOTE: THIS SITE IS PART OF THE SUNPORT PHASE 1 MASTER DRAINAGE PLAN BY ANDREWS, ASBURY & ROBERT, INC DATED 1996 AND HAS FREE DISCHARGE INTO FLIGHTWAY AVE.
HYDROLOGIC METHODS PER CHAPTER 6, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) 2020 EDITION FOR CITY OF ALBUQUERQUE.
DISCHARGE RATE: Q=QPEAK x AREA.."Peak Discharge Rates For Small Watersheds"
VOLUMETRIC DISCHARGE: VOLUME = EWeighted x AREA
P100–6 Hr= 2.29 In., Zone 2, TC = 12 Min.
DESIGN STORM: 100–YEAR/6–HOUR, 10–YEAR/6–HOUR [ ] = 10 YEAR VALUES

EXISTING CONDITIONS A&B

TOTAL AREA = 1.88 ACRES, WHERE EXCESS PRECIP. (AVG.) =0.71 In. [0.23]
PEAK DISCHARGE, Q100 = 4.5 CFS [1.8], WHERE UNIT PEAK DISCHARGE 'B' = 2.4 CFS/AC. [0.95]
THEREFORE: VOLUME 100 = 4845 CF [1570]

DEVELOPED CONDITIONS – HOTEL

DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA

	AREA	LAND TREATM'T	Q Peak	E
UNDEVELOPED	--- Ac.	A	1.71[0.41]	0.62[0.15]
LANDSCAPING / Harvesting	0.1 Ac.(6%)	B	2.36[0.95]	0.80[0.30]
GRAVEL & COMPACTED SOIL	0.2 Ac.(11%)	C	3.05[1.59]	1.03[0.48]
ROOF – PAVEMENT	1.5 Ac.(83%)	D	4.34[2.71]	2.33[1.51]
	1.80 Ac.			

THEREFORE: $E_{Weighted}$ = 2.0 In. &
Q100 = 7.3 CFS VOLUME 100 = 13068 CF±

WATER QUALITY STORM EVENT

FIRST FLUSH - TOTAL SITE, 0.42"/12 X 1.5 X43560 = 2287 CF

RECOMMENDATION:

1. ROUTE BASIN THRU DEPRESSED LANDSCAPE AREAS.
2. SEE NOTE 4.

WEIR CALC.

$Q = CLH^{3/2}$ WHERE: C=2.7
THEN: L = 8' H= 6" Q = 7.3 CFS
or Provide 4 SF NOTCH EQUIVALENT

PROJECT DATA Cont.

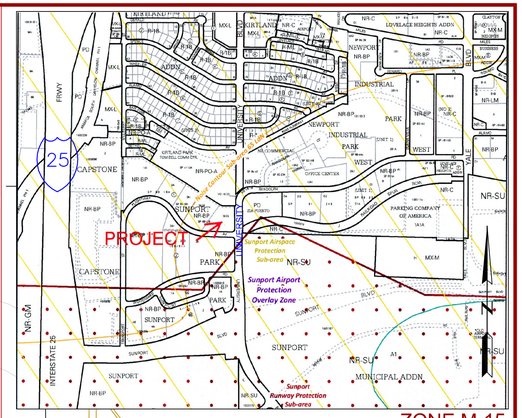
FIRE 1 - ALBUQ. FIRE RESCUE NOTES
-BUILDING HEIGHT, 58 FEET
- OCCUPANCY TYPE, 'R'
- ACCESS GRADE FOR APPARATUS <10%
- STANDPIPE SYSTEM SHALL BE INSTALLED W/IN THE BUILDING WHERE THE FLOOR LEVEL OF HIGHEST STORY IS >30' ABOVE THE VEH. ACCESS LEVEL
- PREMISE ID: ADDRESS TO BE PROVIDED PER FD ORD 505.1
- THE SPRINKLER & STANDPIPE CONNECTION SHALL BE A COMBINATION

DRAINAGE CERTIFICATION

I, PHILIP W CLARK, NMPE 10265, OF THE FIRM CLARK CONSULTING ENGINEERS, 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 2/1/2022 . THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AS SUPPLEMENTAL DATA TO THE ORIGINAL TOPOGRAPHIC SURVEY PREPARED BY LARRY DOMINGUEZ, NMPS, OF THE FIRM _ADVANTAGE SURVEYING IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.

SEE GRADES BY TERRA LAND SURVEYING SHEET 2.

PHILIP W. CLARK NEW MEXICO 10265 REGISTERED PROFESSIONAL ENGINEER 10/12/23



VICINITY MAP

NOTES

1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 2020 EDITION.
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3. 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.
4. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION, AND ALL NPDES, MS-4 PROCEDURES AND BMP (BEST MGMT PRACTICE) GUIDELINES ARE FOLLOWED. SEE REQUIRED SWPP PLAN.
5. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX USING HAY MULCH, FOR EAST SIDE APPLICATION, HATCHITA BLUE GRAMA DOMINANT MIX PER PARAGRAPH4.1.2.
6. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 2 HORIZONTAL TO 1 VERTICAL, 2:1, SLOPES < 4' TALL
7. ALL EARTHWORK PREPARATION AND SUBGRADE PREPARATION FOR BUILDING PAD AND PAVEMENT AREAS SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN THE GEO-TECH REPORT.
   PAVEMENT SECTION SHALL CONSIST OF 6" RPCC (REINFORCED PORTLAND CEMENT CONCRETE) OVER 8" SUBGRADE PREPARATION, 95% Modified Proctor. OR, 4" ASPHALT OVER 6" AGGREGATE BASE COURSE, NMDOT SPEC. SEE / REF: 250105.E IN SPECS. FOR PAVING UPGRADE @ PORT COSHERE.

LEGEND

EXIST. SPOT ELEVATION	•24.0
EXIST. CONTOUR	5110
NEW SPOT ELEVATION	12.0 (ADD 5100 FOR MSL)
NEW CONTOUR	12
NEW SWALE	
DRAINAGE DIRECTION, EXISTING	
NEW P.C.C., CONCRETE	
FLOWLINE	FL
WATER BLOCK	
RIPRAP STONE TYP. VVL, 4" Avg. Dia.	8" BURY UNO (UNLESS NOTED OTHERWISE)

PROJECT DATA

ZONED NR-BP GSF 67,500 BLDG FOOTPRINT 18,214, F.A.R.=0.22
TYPE V-A CONSTRUCTION - SPRINKLERED
FIRE FLOW REQUIRED 2375 GPM, 225' F.H. TO FARTHEST POINT

LEGAL DESCRIPTION

LOT 3-A-2-A, SUNPORT PARK
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK - On Flightway, SEE PLAN

TOP OF IRON WATER METER COVER (NE CORNER) MSL ELEVATION = 5153.82, AS TIED FROM ACS, I-25-30, NAVD 88, 5041.30 FEET.

TOPOGRAPHIC DESIGN SURVEY

PROVIDED BY ADVANTAGE SURVEYING, LLC, DATED APRIL 2019, AND SUPPLEMENTED SEPTEMBER, 2019 BY CCE.

AS-BUILT GRADES PROVIDED BY ANDREW MEDINA, P.S., SEPTEMBER 2023.

PHILIP W. CLARK NEW MEXICO 10265 REGISTERED PROFESSIONAL ENGINEER 12/14/19 3/23/20 r.1/0/27/21 r.2/1/22

Clark Consulting Engineers
Edgewood, New Mexico 87015
Tele: (505) 281–2444 Cell/Txt: (505) 264–6042

DATE	REVISION
2/1/22	ADD Off-site R/W & R/W Call-Outs Associated
10/26/21	MOV'D N. RET WALL, ADD SPOTS,Rev.PKG.+ CALCS
3/23/20	REV. FIRE LINE. ADDED 4" NON-POTA.H20
10/10/19	SWAPPED ENTRANCE/ CANOPY & PATIO

3021 UNIVERSITY BLVD. SE

LOT 3–A–2–A, BLOCK 1, SUNPORT PARK ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

ABQ AIRPORT LODGING, LLC

Grading & Drainage Plan / with SAS/H20 & Fire 1

DESIGNED BY: PWC	DRAWN BY: CCE	JOB #: PATEL_H2SH	C 102
CHECKED BY: PWC	START DATE: 9/12/19	FILE #: G/D	

GRADING & DRAINAGE PLAN

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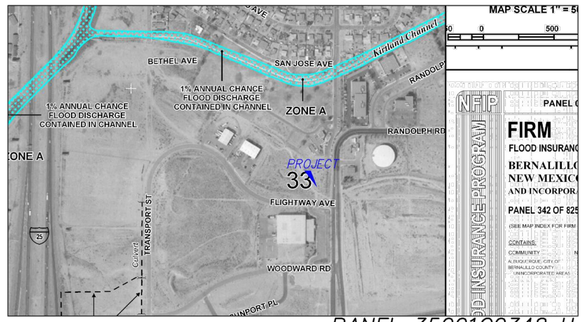
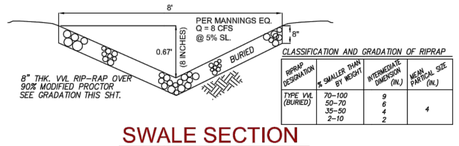
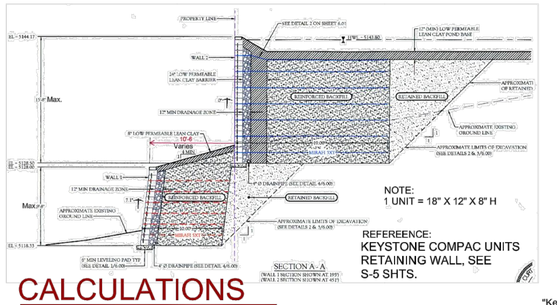


FIRM MAP



SWALE SECTION

NO SCALE



RPCC RETAINING WALL SECTION

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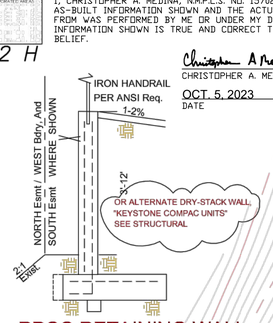

CALCULATIONS

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P100–6 Hr= 2.29 In., Zone 2, TC = 12 Min.
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RECOMMENDATION:
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PROJECT DATA Cont.

FIRE 1 - ALBUQ. FIRE RESCUE NOTES
-BUILDING HEIGHT, 58 FEET
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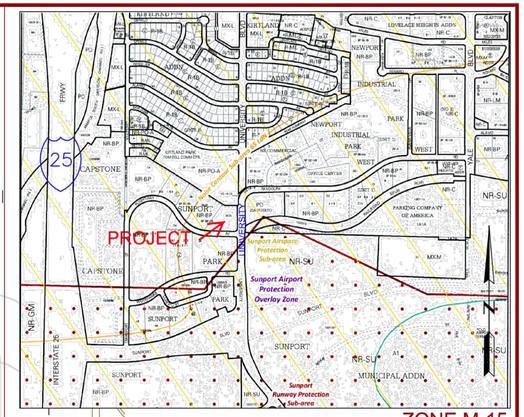
- PREMISE ID: ADDRESS TO BE PROVIDED PER FD ORD 505.1
- THE SPRINKLER & STANDPIPE CONNECTION SHALL BE A COMBINATION

SURVEYOR'S CERTIFICATE

I, CHRISTOPHER A. MEDINA, N.M.P.L.S. NO. 15702, DO HEREBY CERTIFY THAT THE AS–BUILT INFORMATION SHOWN AND THE ACTUAL SURVEY WHICH IT WAS DERIVED FROM WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE INFORMATION SHOWN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Christopher A Medina
CHRISTOPHER A. MEDINA, NMPLS NO. 15702
OCT. 5, 2023
DATE

CHRISTOPHER A. MEDINA NEW MEXICO 15702 REGISTERED PROFESSIONAL SURVEYOR
10/5/2023



VICINITY MAP

3021 UNIVERSITY BLVD. SE

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EXIST. CONTOUR	5110
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NEW CONTOUR	12
NEW SWALE	
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NEW P.C.C., CONCRETE	
FLOWLINE	FL
WATER BLOCK	
RIPRAP STONE TYP. VVL, 4" Avg. Dia.	UNLESS NOTED OTHERWISE 8" BURY UNO

PROJECT DATA

ZONED NR-BP GSF 67,500 BLDG FOOTPRINT 18,214, F.A.R.=0.22
TYPE V-A CONSTRUCTION - SPRINKLERED
FIRE FLOW REQUIRED 2375 GPM, 225' F.H. TO FARTHEST POINT

LEGAL DESCRIPTION

LOT 3-A-2-A, SUNPORT PARK
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK - On Flightway, SEE PLAN

TOP OF IRON WATER METER COVER (NE CORNER) MSL ELEVATION = 5153.82, AS TIED FROM ACS, I-25-30, NAVD 88, 5041.30 FEET.

TOPOGRAPHIC DESIGN SURVEY

PROVIDED BY ADVANTAGE SURVEYING, LLC, DATED APRIL 2019, AND SUPPLEMENTED SEPTEMBER, 2019 BY CCE.

Clark Consulting Engineers
Edgewood, New Mexico 87015
Tele: (505) 281–2444 Cell/Txt: (505) 264–6042

DATE	REVISION
2/1/22	ADD Off-site R/W; & R/W Cal-Outs Associated
10/26/21	MOVD N. RET WALL, ADD SPOTS,Rev.PKG.+ CALCS.
3/23/20	REV. FIRE LINE, ADDED 4" NON-POTA.I=20
10/10/19	SWAPPED ENTRANCE/ CANOPY & PATIO

LOT 3–A–2–A, BLOCK 1, SUNPORT PARK
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

ABQ AIRPORT LODGING, LLC

Grading & Drainage Plan / with SAS/H20 & Fire 1

DESIGNED BY: PWC | DRAWN BY: CCE | JOB #: PATEL_H2SH
CHECKED BY: PWC | START DATE: 9/12/19 | FILE #: G/D

C 102

PHILIP W. CLARK NEW MEXICO 10265 REGISTERED PROFESSIONAL ENGINEER
12/14/19
3/23/20 r.10/27/21 r.2/1/22
r.6/7/22