

# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

**Project Title:** Achen Alameda **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** C18D105  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** Lot 11  
**City Address:** \_\_\_\_\_

**Applicant:** RESPEC **Contact:** \_\_\_\_\_  
**Address:** 5971 Jefferson Street NE Suite 101 Albuquerque NM 87109  
**Phone#:** (505) 253-9811 **Fax#:** \_\_\_\_\_ **E-mail:** Jeremy.shell@respec.com  
**Owner:** James R. Achen **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** (505)358-0808 **Fax#:** \_\_\_\_\_ **E-mail:** jimachen@me.com

**TYPE OF SUBMITTAL:** \_\_\_\_\_ PLAT ( \_\_\_\_\_ # OF LOTS) \_\_\_\_\_ RESIDENCE ☒ DRB SITE \_\_\_\_\_ ADMIN SITE

**IS THIS A RESUBMITTAL?:** ☒ Yes \_\_\_\_\_ No

**DEPARTMENT:** \_\_\_\_\_ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☒ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ DRAINAGE MASTER PLAN
- ☒ DRAINAGE REPORT
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ OTHER (SPECIFY) \_\_\_\_\_
- ☐ PRE-DESIGN MEETING?

### TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

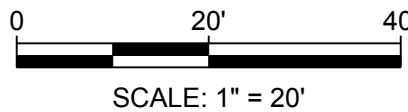
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
- ☒ SITE PLAN FOR SUB'D APPROVAL
- ☒ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ GRADING/ PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) \_\_\_\_\_

**DATE SUBMITTED:** 8/6/19 **By:** Jeremy Shell

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



ALL PROPOSED INFRASTRUCTURE SHOWN IN THE RIGHT-OF-WAY WILL BE INCLUDED ON A PUBLIC WORK ORDER

## LEGEND

—W—W—W—	WATER LINE
———S———	SEWER LINE
Ⓢ	SEWER MANHOLE

DESIGNED	<b>DM</b>	DATE	8.06.2019	REVISION	
	DRAWN		<b>DM</b>		
CHECKED	<b>JS</b>				

<b>RESPEC</b>	9971 JEFFERSON STREET SUITE 101
	ALBUQUERQUE, NM 87109
<b>RESPEC</b>	AIR WATER & NATURAL RESOURCES
	WWW.RESPEC.COM 505-253-9718

STAMP

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

**nm811**  
Know what's below.  
Call before you dig.

SHEET NUMBER:	<b>C-200</b>
SUBMITTED FOR:	DRB SITE PLAN
SHEET TITLE:	CONCEPTUAL UTILITY
PROJECT NAME:	OFFICE WAREHOUSE BUILDING



```
*100 YEAR RAINFALL TABLE
RAINFALL      TYPE=13  RAIN QUARTER=0.0 IN
               RAIN ONE=2.14 IN  RAIN SIX=2.60 IN
               RAIN DAY=3.10 IN  DT=0.05 HR
```

\*S EXISTING CONDITIONS

\*5 COMPUTE HYD BASIN EX

```

COMPUTE NM HYD ID=1 HYDNO=101 DA=0.0011973945 SQ M
PER A=0 PER B=34 PER C=16 PER D=50
TP=-0.13333333 RAIN=-1

```

PRINT HYD ID=1 CODE=20

**\*S PROPOSED CONDITIONS**

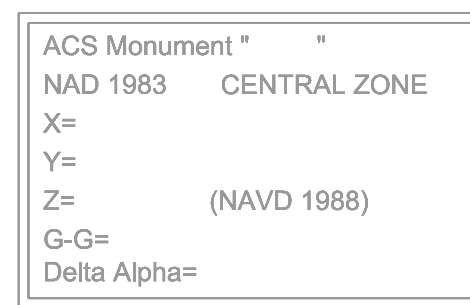
\* S COMPUTE HYD BASIN A

```

COMPUTE NM HYD ID=2 HYDNO=102 DA=0.0011973945 SQ M
PER A=0 PER B=2.9 PER C=2.9 PER D=94.3
TP=-0.133333333 RAIN=-1

```

PRINT HYD ID=2 CODE=20

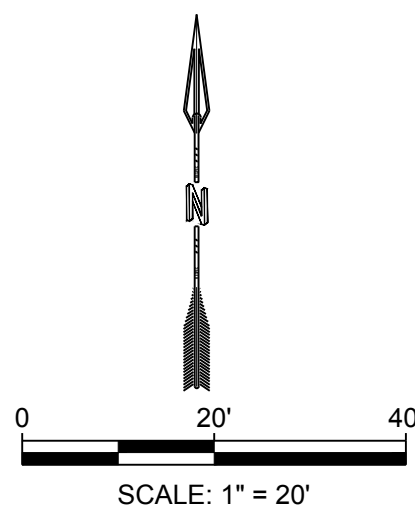
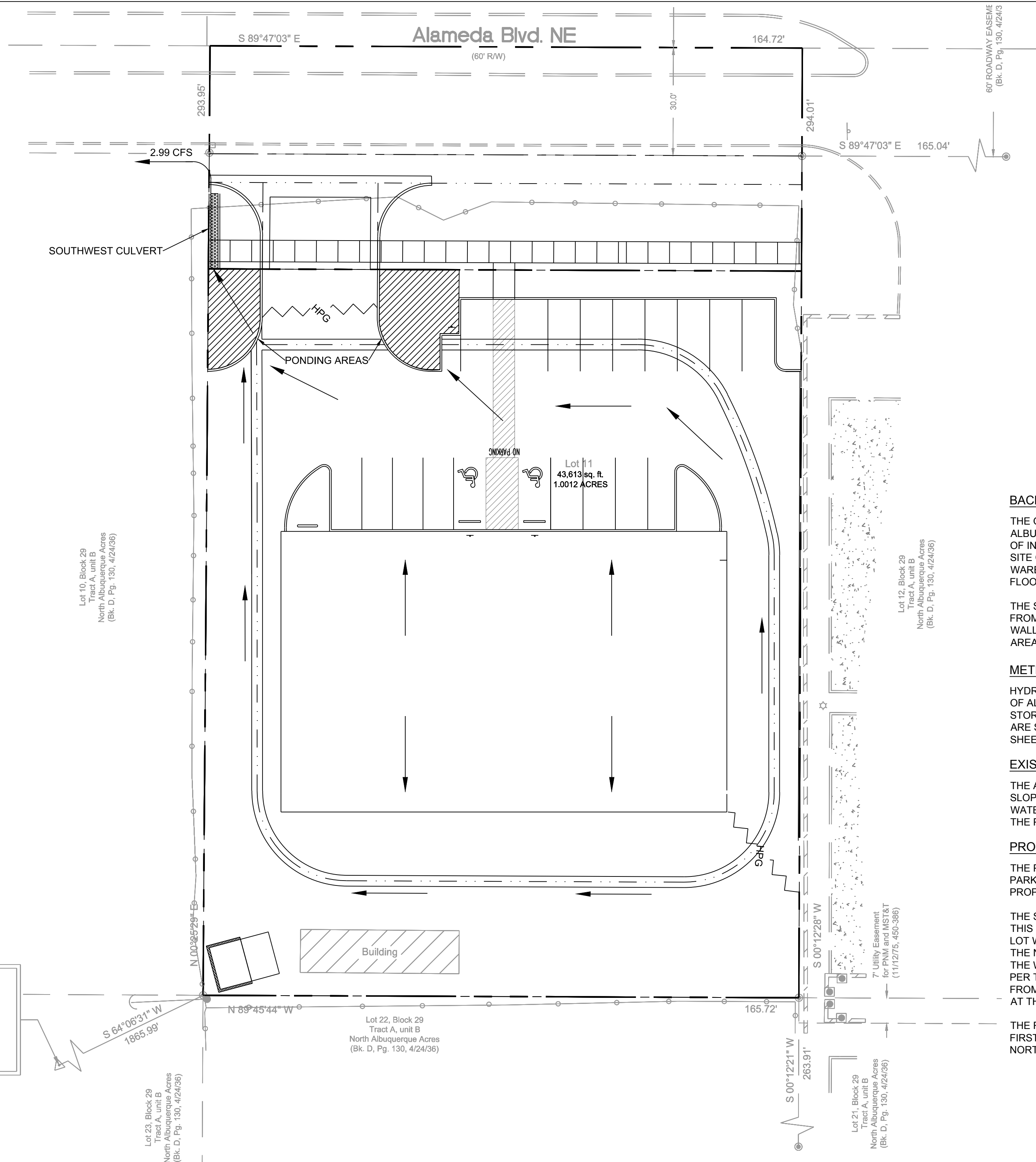


AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) - Ver. S4.02a, Rel: 02a RUN DATE (MON/DAY/YR) =07/24/2019  
INPUT FILE = ibrary\HandH Tools\ahymo-s4-r2\DISK1\program files\AHYMO-S4\AchenAlameda.txt USER NO.= AHYMO-S4TempUser05901704

		FROM	TO	PEAK	RUNOFF	TIME TO		CFS	PAGE = 1
COMMAND	HYDROGRAPH IDENTIFICATION	ID NO.	AREA (SQ MI)	DISCHARGE (CFS)	VOLUME (AC-FT)	RUNOFF (INCHES)	PEAK (HOURS)	PER ACRE	NOTATION

```
*S*          PROJECT NAME: ACHEN ALAMEDA
*S*          DATE: JULY 23, 2019
*S*
*S*          INPUT FILE NAME: AchenAlameda.hym
*S*          OUTPUT FILE NAME: AchenAlameda.out
```

RAINFALL TYPE=13										RAIN24=	3.100
*S EXISTING CONDITIONS											
*S COMPUTE HYD BASIN EX											
COMPUTE NM HYD	101.00	-	1	0.00120	2.99	0.124	1.94076	1.500	3.907 PER IMP=	50.00	
*S PROPOSED CONDITIONS											
*S COMPUTE HYD BASIN A											
COMPUTE NM HYD	102.00	-	2	0.00120	3.71	0.176	2.75473	1.500	4.847 PER IMP=	94.21	



## BACKGROUND

THE OFFICE WAREHOUSE BUILDING SITE IS APPROXIMATELY .766 ACRES IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO. THE PROPERTY IS LOCATED JUST EAST OF INTERSTATE 25 ON ALAMEDA BLVD BETWEEN SAN PEDRO DR AND LOUISIANA BLVD. THE SITE CURRENTLY IS AN UNDEVELOPED LOT. THE PROPOSED PROJECT IS AN OFFICE WAREHOUSE. ACCORDING TO THE FEMA WEBSITE THERE IS NO DESIGNATED 100-YEAR FLOODPLAIN SHOWN ON THE SITE.

THE SITE DOES NOT RECEIVE ANY OFFSITE FLOWS BUT HAS PREVIOUSLY RECEIVED FLOWS FROM THE ADJACENT PROPERTIES TO THE EAST. THE ADJACENT SITE NOW HAS A RETAINING WALL ON THE PROPERTY LINE AND NO LONGER DISCHARGES ONTO THE PROJECT AREA. THIS AREA IS INCLUDED IN THE NORTH ALBUQUERQUE ACRES MASTER DRAINAGE PLAN (NAAMPD).

## METHODOLOGY

HYDROLOGY CALCULATIONS FOR THE SITE ARE PERFORMED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE TECHNICAL STANDARDS. AHYMO WAS USED, BASED ON THE 100-YR, 24-HR STORM EVENT, TO CALCULATE PEAK FLOW RATES IN ORDER TO ENSURE ALL FLOW PATHS ARE SUFFICIENT TO CARRY FLOWS. ALL HYDROLOGIC CALCULATIONS CAN BE FOUND ON THIS SHEET.

## EXISTING CONDITIONS

THE AREA, IN GENERAL, SLOPES FROM SOUTH-EAST TO NORTH-WEST AT AN APPROXIMATE SLOPE OF 2% - 4% TO A LOW RETENTION BASIN APPROXIMATELY FOUR FEET DEEP. STORM WATER RUNOFF GENERATED BY LOT 11 SHEET DRAINS INTO RETENTION BASIN LOCATED ON THE PROPERTY.

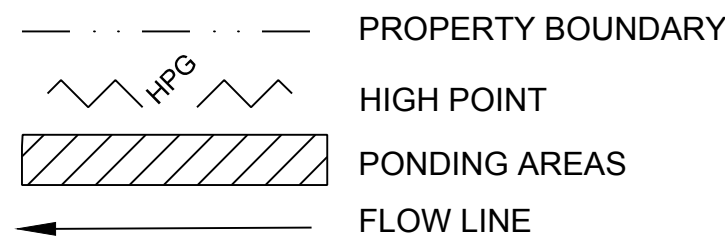
### PROPOSED CONDITIONS


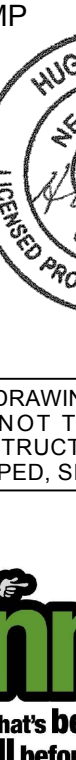
THE PROPOSED DEVELOPMENT WILL CONSIST OF ASPHALT AND CONCRETE PAVING FOR PARKING AND DRIVING SURFACES AND A LARGE OFFICE WAREHOUSE BUILDING. THE PROPERTY HAS ONE BASIN.

THE SUBBASIN IS THE SIZE OF THE PROPERTY AT 0.766 ACRES AND GENERATES 3.71 CFS. THIS SUBBASIN CONSISTS PRIMARILY OF THE RUNOFF GENERATED ON SITE. THE PARKING LOT WILL FLOW FROM SOUTHEAST TO NORTHEAST AND FLOW INTO THE DETENTION POND AT THE NORTHEAST CORNER OF THE PROPERTY. ONCE WATER REACHES THE ELEVATION OF THE WEIR, RUNOFF EXITS THE DETENTION POND AND FLOWS TO THE WEST ALONG ALAMEDA. PER THE NAA DMP, THE SITE IS ALLOWED 2.99 CFS DISCHARGED INTO ALAMEDA. THE FLOW FROM THE PROPERTY WILL BE REDUCED TO THIS ALLOWABLE RATE VIA THE PONDS LOCATED AT THE NORTHWEST CORNER OF THE SITE.

THE REQUIRED WATER QUALITY VOLUME OF 593 CUBIC FEET WAS CALCULATED USING A FIRST FLUSH VALUE OF 0.34". THIS VOLUME WILL BE STORED IN THE PONDING AREA AT THE NORTHWEST CORNER OF THE PROPERTY.

## LEGEND



SHEET NUMBER:		C-100	
SUBMITTED FOR:		DRB SITE PLAN	
SHEET TITLE:		CONCEPTUAL GRADING AND DRAINAGE PLAN	
PROJECT NAME:		OFFICE WAREHOUSE BUILDING	
<div><div><p>Know what's below. Call before you dig.</p></div><div><p>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p></div></div>			
STAMP			
DESIGNED <b>DM</b>		REVISION	
DRAWN <b>DM</b>			
CHECKED <b>JS</b>			
DATE 8.06.2019			
5971 JEFFERSON STREET SUITE 101 ALBUQUERQUE, NEW MEXICO 87109 TEL: 505-253-9718 WWW.RESPEC.COM 505-253-9718			
