

# CITY OF ALBUQUERQUE



March 24, 2016

Richard J. Berry, Mayor

Maryam D. Giahi  
Wilson & Company  
4900 Lang Ave. NE  
Albuquerque, NM, 87109

**RE: APS Rankin Training Facility  
Grading and Drainage Plan  
Engineer's Stamp Date 2-16-2016 (File:G15D061)**

Dear Ms. Giahi:

Based upon the information provided in your submittal received 2-17-2016, the above referenced Grading and Drainage Plan is approved for Grading Permit and Building/Demo Permit. We do, however, have the following recommendations:

1. The crusher fine parking areas should be graded away from the pavement edges, or the pavement section will be subject to subgrade failure and eventual edge cracking. This will be a requirement, if during the C.O. inspection it becomes apparent that sediment will wash onto the street during a storm.
2. A cut-off wall (or narrow edge curbing) should be considered to maintain the integrity of the new edges of asphalt.

If you agree with one or both of the recommendations, please email me at [acarrillo@cabq.gov](mailto:acarrillo@cabq.gov) to place a note in our file.

Please attach a copy of this approved plan in the construction sets when submitting for the building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Abiel Carrillo, P.E.  
Principal Engineer, Planning Dept.  
Development Review Services



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **City Drainage #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Engineering Firm:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Architect:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

Check all that Apply:

**DEPARTMENT:**

- ☐ HYDROLOGY/ DRAINAGE  
☐ TRAFFIC/ TRANSPORTATION  
☐ MS4/ EROSION & SEDIMENT CONTROL

**TYPE OF SUBMITTAL:**

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN  
☐ GRADING PLAN  
☐ DRAINAGE MASTER PLAN  
☐ DRAINAGE REPORT  
☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ TRAFFIC IMPACT STUDY (TIS)  
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ OTHER (SPECIFY) \_\_\_\_\_

**CHECK 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
- ☐ PRE-DESIGN MEETING  
☐ OTHER (SPECIFY) \_\_\_\_\_

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF: \_\_\_\_\_ ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_



## HYDROLOGY SUMMARY

PROJECT NAME:		Rankin Training Facility								100 YEAR	
JOB NUMBER:	16-600-007-00	AREA	LAND TREATMENTS					Q		VOLUME (ac.ft.)	
BASIN	COND.	DESCRIPTION	(acres)	A	B	C	D	(cfs)	6 HR	24 HR	1 DAY
ONSITE	EXISTING		2.0200	0.0%	0.0%	0.0%	100.0%	9.49	0.357	0.424	0.5168
ONSITE	DEVELOPED		2.0200	0.0%	0.0%	0.0%	100.0%	9.49	0.357	0.424	0.5168

INPUT DATA:

PRECIP.	RAINFALL DEPTHS (INCHES) AT 100-YEAR STORM					
ZONE	1 HOUR	6 HOUR	24 HOUR	4 DAY	10 DAY	
2	2.01	2.35	2.75	3.30	3.95	

## SITE LOCATION &amp; PROJECT BACKGROUND:

RANKIN TRAINING FACILITY IS LOCATED AT 120 RANKIN ROAD, NE IN ALBUQUERQUE, NEW MEXICO. THE PROPERTY AREA IS 2.02 AC AND INCLUDES A MAIN AND MODULAR BUILDINGS WITH ASPHALT PAVED PARKING LOT. THE PROPOSED IMPROVEMENTS INCLUDES REMOVAL OF EXISTING MODULAR BUILDINGS IN THEIR ENTIRETY AND INSTALLING ASPHALT WHERE MODULAR BUILDINGS WERE LOCATED. EXISTING PAVED PARKING AREAS WILL REMAIN IN THEIR EXISTING CONDITION.

## METHODOLOGY:

CITY OF ALBUQUERQUE (COA) DEVELOPMENT PROCESS MANUAL (DPM) SECTION 22.2 HYDROLOGY WAS UTILIZED TO CALCULATE EXISTING AND DEVELOPED PEAK RUNOFF AND VOLUME. SEE HYDROLOGY SUMMARY TABLE THIS SHEET.

## EXISTING CONDITIONS:

THE EXISTING SITE SLOPES IN A NORTH-WESTERLY DIRECTION AND DRAINS INTO RANKIN ROAD. APPROXIMATELY 1.6 AC OF THE SITE IS COVERED WITH BLUEPOINT-KOKAN ASSOCIATION TYPE SOIL, CLASSIFIED AS HYDROLOGIC SOIL GROUP 'A' AND EXCESSIVELY DRAINED. THE REMAINDER OF THE SITE IS COVERED WITH GILA COMPLEX, MODERATELY ALKALI TYPE SOIL CLASSIFIED AS HYDROLOGIC SOIL GROUP 'C' AND WELL DRAINED. THE SITE IS LOCATED IN ZONE 'X' PER FEMA FLOOD INSURANCE RATE MAP DEFINED AS AREAS WHICH ARE OUTSIDE THE 500-YEAR ANNUAL CHANCE FLOODPLAIN. MAJORITY OF GENERATED RUNOFF SHEET FLOWS TO THE WEST AND ACCUMULATES AT A LOW POINT AT THE EXISTING CURB ALONG THE WEST EDGE OF THE PROPERTY. THE CURB HEIGHT VARIES FROM 6 INCH TO 13 INCHES. A 4 INCH PIPE CONVEYS FLOWS FROM THIS POINT INTO RANKIN ROAD. RUNOFF FROM THE TOP NORTH OF THE PROPERTY ALONG RANKIN ROAD SHEET FLOWS DIRECTLY INTO RANKIN ROAD. THERE ARE NO OFFSITE FLOWS ENTERING THE SITE. THE SITE GENERATES 9.49 CFS IN ITS CURRENT CONDITIONS IN A 100-YR STORM EVENT. SEE HYDROLOGY SUMMARY TABLE.

## DEVELOPED CONDITIONS:

THE PROPOSED PARKING IMPROVEMENTS WILL INCLUDE ADA ACCESSIBLE PARKING SPACES AND RAMPS. THE CONCRETE SURFACE AREAS UNDER EXISTING MODULAR BUILDINGS WILL BE PAVED WITH ASPHALT. THE ASPHALT LAND TREATMENT WILL BE IMPERVIOUS WHICH WILL RESULT IN THE SAME AMOUNT OF RUNOFF AS IN THE EXISTING CONDITIONS. THE DEVELOPED DRAINAGE PATTERN WILL BE THE SAME AS THE EXISTING CONDITIONS. THE EXISTING PIPE ALONG THE WEST EDGE OF THE PROPERTY CONVEYS FLOWS TO RANKIN ROAD. THE SITE GENERATES 9.49 CFS IN A 100-YR STORM EVENT IN THE DEVELOPED CONDITIONS WHICH IS THE SAME AS THE EXISTING CONDITIONS. SEE THIS SHEET FOR HYDROLOGY SUMMARY TABLE AND GRADING DETAILS. EROSION AND SEDIMENT CONTROL PLAN IS NOT WARRANTED SINCE THE DISTURBED AREA IS LESS THAN ONE ACRE.

LOCATION  
ZONE ATLAS MAP G-15

SITE LOCATION

FLOOD INSURANCE RATE MAP  
REFERENCE: FLOOD INSURANCE STUDY  
PANEL 332 #35001C0332G  
SEPT 26, 2008

SITE LOCATION

SOILS MAP  
REFERENCE: [HTTP://WEBSOILSURVEY.NRCS.USDA.GOV](http://websoilsurvey.nrcs.usda.gov)3" ASPHALT SP-B 1 LIFT  
PER SECTION 116,33612" SUBGRADE PREP  
COMPACTED TO 95% MIN  
DENSITY PER ASTM D 1557  
SECTION 301C4 3" ASPHALT PAVEMENT SECTION  
NTS

## GENERAL NOTES

- REFER TO ARCHITECTURAL SHEETS FOR RETAINING WALL DETAILS.

## LEGEND

ME	MATCH EXISTING ELEVATION
FG	FINISHED GRADE
TC	TOP OF CONCRETE
TA	TOP OF ASPHALT
→	DRAINAGE FLOW PATH
■	CONCRETE PAVING

ASPHALT PAVING. SEE SECTION C4 THIS SHEET

---5040--- EXISTING MAJOR CONTOUR

---5042--- EXISTING MINOR CONTOUR

---5037--- PROPOSED CONTOUR

## A1 GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'

WILSON  
& COMPANY4800 LANG AVE NE  
ALBUQUERQUE, NM 87109  
PHONE: 505-243-4400  
FAX: 505-243-4400  
www.wilsonco.comRANKIN TRAINING FACILITY  
SITE RENOVATIONS

720 RANKIN RD, NE ALBUQUERQUE, NEW MEXICO 87107



REVISIONS	Date	Description
1	10/10/16	ASPHALT

Project #: 16-600-007-00  
Date: 02/16/2016  
By: Staff  
File Name: 166007\_GD.DWGSITE GRADING &  
DRAINAGE PLAN

Sheet of

C-101R