

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

April 30, 2021

James Lopez, P.E.
Wilson & Company
440I Masthead St. NE
Albuquerque, NM, 87113

**RE: Rail Yards Streetscape
Grading & Drainage Plan
Engineer's Stamp Date: 3/23/21
Hydrology File: K15D105A
CPN: 758083**

Dear Mr. Lopez:

PO Box 1293
Based upon the information provided in your submittal received 04/28/2021, the Grading & Drainage Plan is approved for Work Order. Please include the stamped approved Grading & Drainage Plan in the Work Order drawing set.

Albuquerque
As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

NM 87103

www.cabq.gov
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
Planning Department



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Rail yards Streetscape

Project Title: Project CPN 758093 **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Tr A Plat of TR A. AT & SF Railway Company Machine Shop Cont.
City Address: 1100 2nd Street SW Albuquerque, NM 87102

Applicant: Wilson & Compnay, Inc., Engineers & Architects **Contact:** James Lopez, PE
Address: 4401 Masthead St NE Albuquerque, NM 87109
Phone#: (505)-730-8013 **Fax#:** (505)-348-4055 **E-mail:** Jelopez@wilsonco.com

Other Contact: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF DEVELOPMENT: _____ **PLAT (# of lots)** _____ **RESIDENCE** _____ **DRB SITE** _____ **ADMIN SITE** _____

IS THIS A RESUBMITTAL? _____ **Yes** _____ **No** _____

DEPARTMENT _____ **TRANSPORTATION** _____ **HYDROLOGY/DRAINAGE** _____

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- _____ CONCEPTUAL G & D PLAN
- _____ 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?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

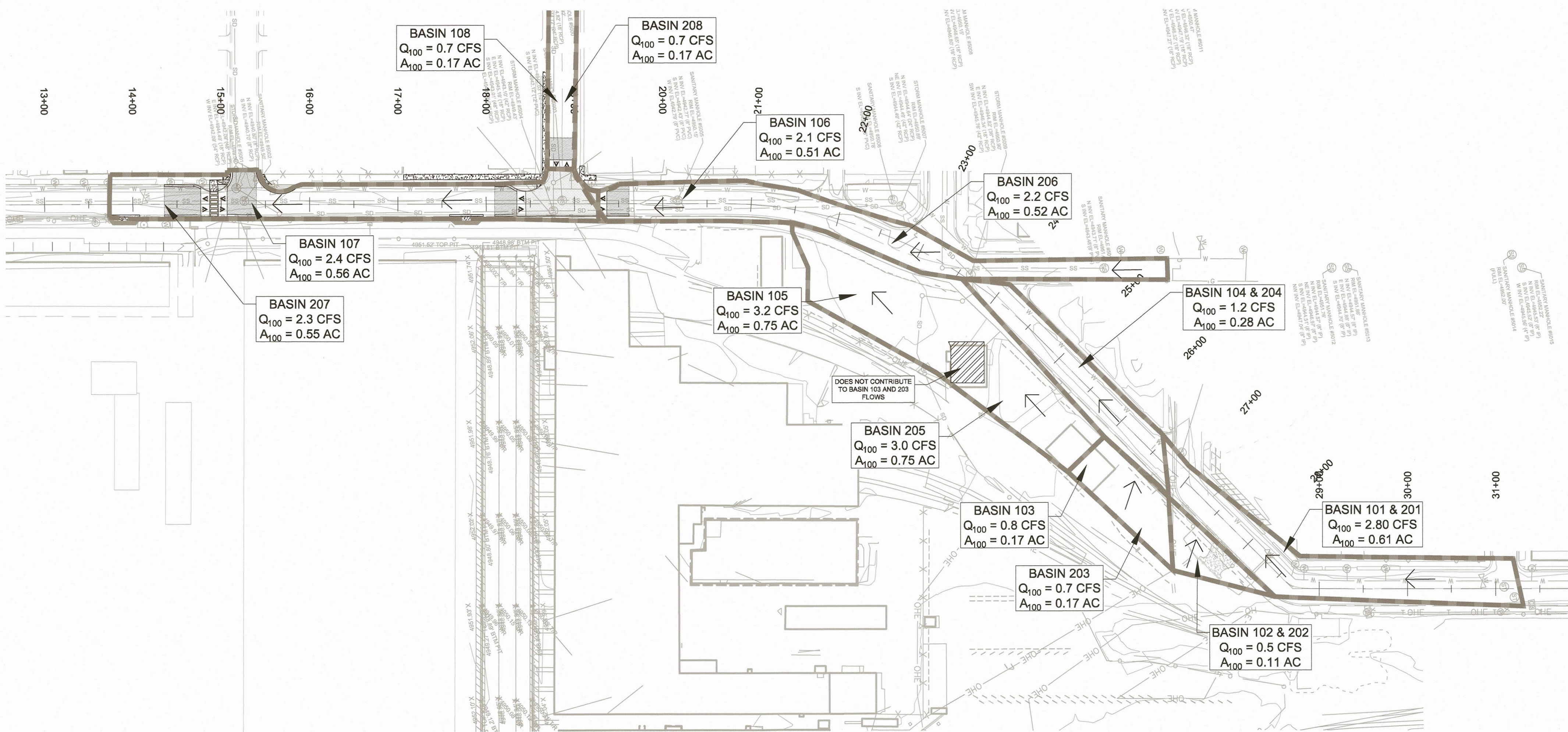
- _____ BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY
- _____ PRELIMINARY PLAT APPROVAL
- _____ SITE PLAN FOR SUB'D APPROVAL
- _____ SITE PLAN FOR BLDG. PERMIT APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ SIA/ RELEASE OF FINANCIAL GUARANTEE
- _____ FOUNDATION PERMIT APPROVAL
- _____ GRADING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

DATE SUBMITTED: 3/21/21 **By:** James Lopez, PE

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



RAIL YARDS STREETSCAPE PROJECT

Existing Conditions

The Rail Yards Streetscape Project is located at the Albuquerque Rail Yards second street. The project limits are from the intersection of 1st Street and Hazeldine Ave and end at the intersection of Pacific Ave and 2nd Street. The existing conditions include buildings, sidewalk, roads, and pervious landscaping areas. There are three buildings that are within the drainage area for this project but only two contribute to existing flows. The historic fire station building drains underground into the storm drain system. Most of the existing flows come from precipitation landing on 1st and 2nd Street that are captured by existing inlets. The calculations for this project were conducted per the COA DPM and the rational method was used to calculate peak flows. The project precipitation zone is located within zone 2

The area project consists of 9 existing basins. Basin 101 drains from the intersection of Stover Ave and 1st Street to the intersection of Hazeldine Ave and 1st Street where flows are captured in two inlets. Basin 102 drains from the north entrance to the Rail Yards, across the sidewalk, and into basin 101. Basin 103 has runoff from the building and a section of the parking lot to basin 104. Basin 104 captures flows within the curb and gutter and guides flows to one inlet at where 1st Street intersects with 2nd Street. Basin 105 sheet flows water onto 2nd Street and into Basin 106. Basin 106 drains along 2nd Street to three inlets at the intersection of Santa Fe Ave. Lastly, basin 107 drains along 2nd Street from the intersection of Santa Fe Ave and 2nd Street and drains to the intersection of Pacific Ave and 2nd Street. The flows are captured in four inlets.

Proposed Conditions

The proposed conditions will not change any of the existing drainage patterns or increase flows. Flow will be reduced in the proposed conditions because of additional landscaping and decreased impervious areas. Also, the section of 1st street from the intersection of 1st and 2nd street to the intersection of 1st Street and the north entrance for the railyards will be made into a large open sidewalk. The sidewalk corridor will include landscaping, brick patterns, and concrete retaining and decorative walls. A raised brick intersection with concrete ramps will be made at the Santa Fe Ave and 2nd Street intersection. This means all the existing inlets will be moved and graded around the proposed intersection. The two existing inlets along 2nd Street will be moved north and south, respectively. The inlet along Santa Fe Ave will be moved west to accommodate for the new raised intersection. The inlet on Santa Fe Ave will continue capturing flows from Santa Fe Ave and will capture a portion of the raised brick intersection. Santa Fe Ave will also be graded so that all flows from that street will flow into the moved inlet just west of the intersection. The remaining flows will then be guided to the Pacific Ave and 2nd Street intersection as it currently does, where the west side flows on 2nd street will flow into the two inlets and the east side flows will go to the proposed south inlet.

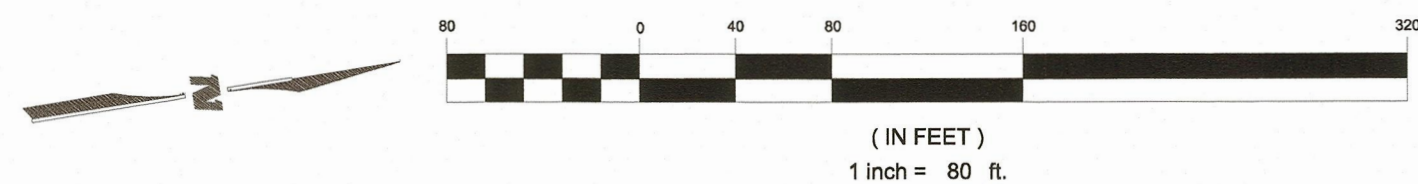
The proposed basins will generally flow the same as the existing. Basins 201 - 205 will retain their flow directions, but the amount of flow varies due to the new landscaping. For example, Basin 205 will see a decrease in flow because of the new pervious land treatments being introduced with the new landscaping. As for the roadway basins (Basins 206 - 208), flow directions will also remain the same, with flows changing slightly due to the landscaping proposed raised intersection. All of these flows will be captured by the new inlets at their new respective locations.

Existing Conditions		Total		A		B		C		D		Peak	Excess Precip.	Volume	Volume	Volume
Basin	Area (sq ft)	Area (Ac)	%	Ac	%	Ac	%	Ac	%	Ac	%	Discharge, Q	(Weighted)	(6hr, acre-ft)	(24hr, acre-ft)	(10day, acre-ft)
101	21734.58	0.50	0	0	0	0	5	0.02	95	0.47	2.1	1.92	0.0799	0.0980	0.1379	
102	4700.59	0.11	0	0	0	0	5	0.01	95	0.10	0.5	1.92	0.0173	0.0212	0.0298	
103	7812.1	0.17	0	0	0	0	5	0.01	95	0.17	0.8	1.92	0.0280	0.0343	0.0483	
104	12312.42	0.28	0	0	0	0	5	0.01	95	0.27	1.2	1.92	0.0452	0.0555	0.0781	
105	32589.55	0.75	0	0	0	0	10	0.07	90	0.67	3.2	1.87	0.1167	0.1425	0.1992	
106	22469.74	0.52	0	0	0	0	10	0.05	90	0.46	2.2	1.87	0.0805	0.0983	0.1373	
107	24260.16	0.56	0	0	0	0	5	0.03	95	0.53	2.4	1.92	0.0892	0.1094	0.1540	
108	7298.24	0.17	0	0	0	0	5	0.01	95	0.16	0.7	1.92	0.0268	0.0329	0.0463	

Proposed Conditions		Total		A		B		C		D		Peak	Excess Precip.	Volume	Volume	Volume
Basin	Area (sq ft)	Area (Ac)	%	Ac	%	Ac	%	Ac	%	Ac	%	Discharge, Q	(Weighted)	(6hr, acre-ft)	(24hr, acre-ft)	(10day, acre-ft)
201	21734.58	0.50	0	0.00	0	0.00	5	0.02	95	0.47	2.1	1.92	0.0799	0.0980	0.1379	
202	4700.59	0.11	0	0.00	0	0.00	5	0.01	95	0.10	0.5	1.92	0.0173	0.0212	0.0298	
203	7812.1	0.17	0	0.00	0	0.00	10	0.02	90	0.16	0.7	1.87	0.0273	0.0333	0.0465	
204	12312.42	0.28	0	0.00	0	0.00	20	0.06	80	0.23	1.2	1.77	0.0418	0.0505	0.0695	
205	32589.55	0.75	0	0.00	0	0.00	20	0.15	80	0.80	3.0	1.77	0.1106	0.1335	0.1839	
206	22232.08	0.51	0	0.00	0	0.00	10	0.05	90	0.46	2.2	1.87	0.0796	0.0972	0.1359	
207	24260.16	0.56	0	0.00	0	0.00	15	0.08	85	0.47	2.3	1.82	0.0846	0.1028	0.1428	
208	7448.22	0.17	0	0.00	0	0.00	15	0.03	85	0.15	0.7	1.82	0.0280	0.0315	0.0438	



GRAPHIC SCALE



RAIL YARDS STREETSCAPE PROJECT EXISTING AND PROPOSED DRAINAGE CONDITIONS

SCALE: 1" = 80'

SITE LOCATION

LOCATION

SITE LOCATION

AREA OF MINIMAL FLOOD HAZARD Zone X

City of Albuquerque #35002

35001C0334G eff. 9/26/2008

FLOOD INSURANCE RATE MAP
REFERENCE: FLOOD INSURANCE STUDY
PANEL #35001C0334G

SITE LOCATION

REFERENCE: HTTP://WEBSOILSURVEY.NRCS.USDA.GOV

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ALBUQUERQUE, NM 87109
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FAX: 505-348-4072
www.wilsonco.com

MRWM
LANDSCAPE ARCHITECTS
mrwm@a.com 505 268 2266

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DEVELOPMENT DIVISION

TITLE: THE RAIL YARDS STREETSCAPE PROJECT
GRADING AND DRAINAGE PLAN

Design Review Committee City Engineer Approval

City Project No. 7580.93 Zone Map No. K-14-Z Sheet 11 Of 34

AS-BUILT INFORMATION

CONTRACTOR	DATE
WORK	DATE
INSPECTOR'S	DATE
FIELD	DATE
VERIFICATION BY	DATE
NO. OF	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	DATE

REVISIONS

NO.	DATE	REMARKS
1	02-24-21	DESIGN
2	02-24-21	DESIGN
3	02-24-21	DESIGN

ENGINEER'S SEAL

JAMES E. POPE
24897
3/23/21
PROFESSIONAL ENGINEER