

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

July 9, 2020

Ronald Bohannon, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

**RE: Meridian Business Park
541 Silver Creek Rd. NW
Grading and Drainage Plan
Engineer's Stamp Date: 06/30/20
Hydrology File: K10D023I**

Dear Mr. Bohannon:

PO Box 1293

Based upon the information provided in your submittal received 07/01/2020, the Grading & Drainage Plan is approved for Building Permit, SO-19 Permit, and for action by the DRB on Site Plan for Building Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103

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.

www.cabq.gov

Also as a reminder, please provide Drainage Covenant for the detention pond per Chapter 17 of the DPM prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

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)

Project Title: Lot 22 Meridian Business Park Building Permit #: _____ Hydrology File #: _____

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

Legal Description: LT 22 Lots 1 Thru 23 Meridian Business Park

City Address: 541 Silver Creek Rd NW Albuquerque, NM 87121

Applicant: Tierra West, LLC Contact: Vince Carrica

Address: 5571 Midway Park Place NE Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: vcarrica@tierrawestllc.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:

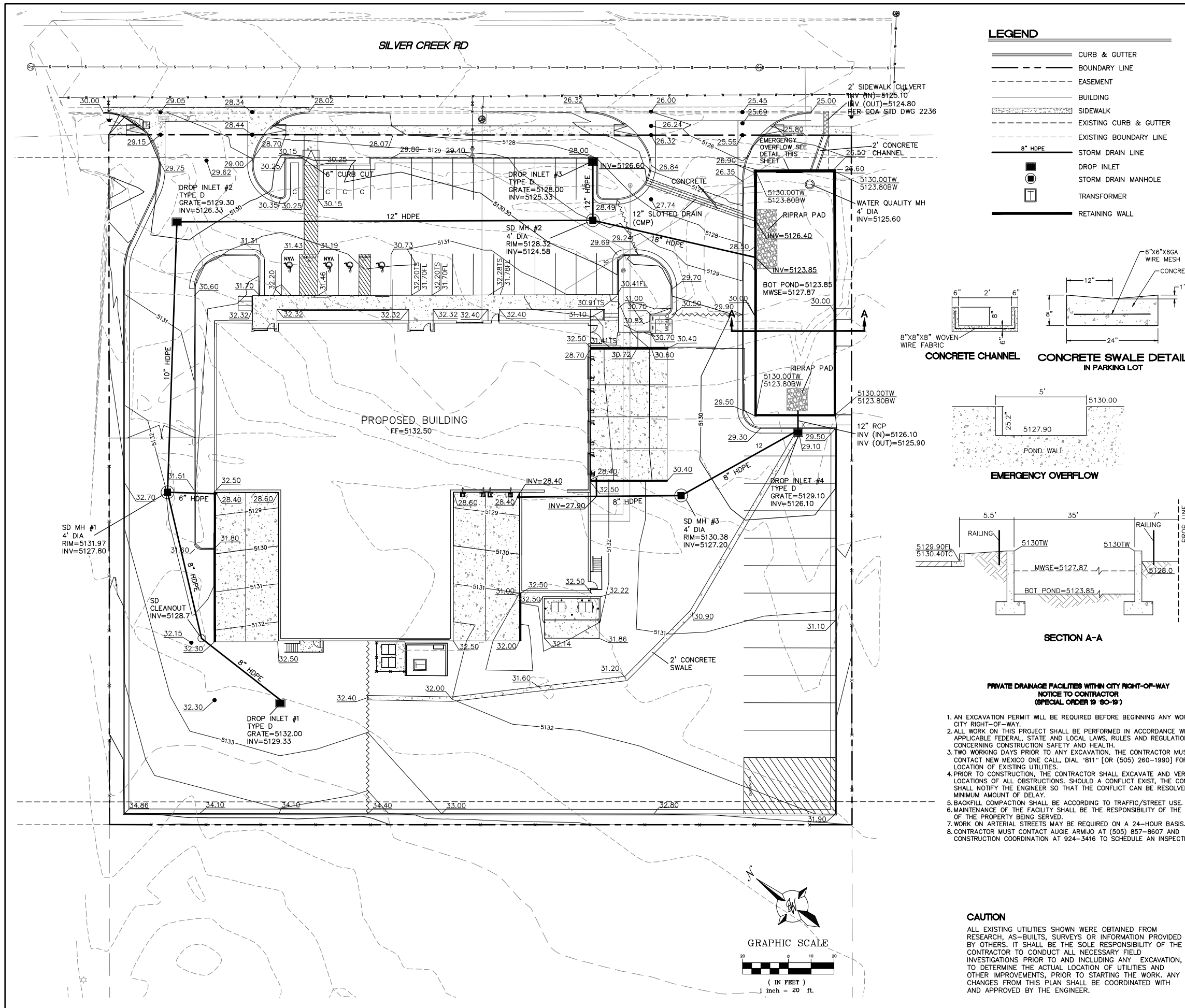
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☒ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL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

DATE SUBMITTED: 6/30/2020 By: Vince Carrica

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

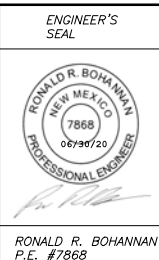



NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

EROSION CONTROL NOTES

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 CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.
6. ALL SLOPES NOT STABILIZED AT THE END OF THE PROJECT SHALL BE STABILIZED IN ACCORDANCE WITH COA SPECS OR 3" GRAVEL.

 <p>RONALD R. BOHANNAN P.E. #7868</p>	MERIDIAN BUSINESS PARK ALBUQUERQUE, NM	DRAWN BY pm
	LOT 22 GRADING AND DRAINAGE PLAN	DATE 6-30-2020
	 <p>TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com</p>	DRAWING 2020033-GR
		SHEET # GR-1 JOB # 2020033

DRAINAGE REPORT

For

**541 Silver Creek Rd.
ALBUQUERQUE, NEW MEXICO**

Prepared by

Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, New Mexico 87109

Prepared for

Lot 22 Meridian Business Park
Albuquerque, NM

June 29, 2020

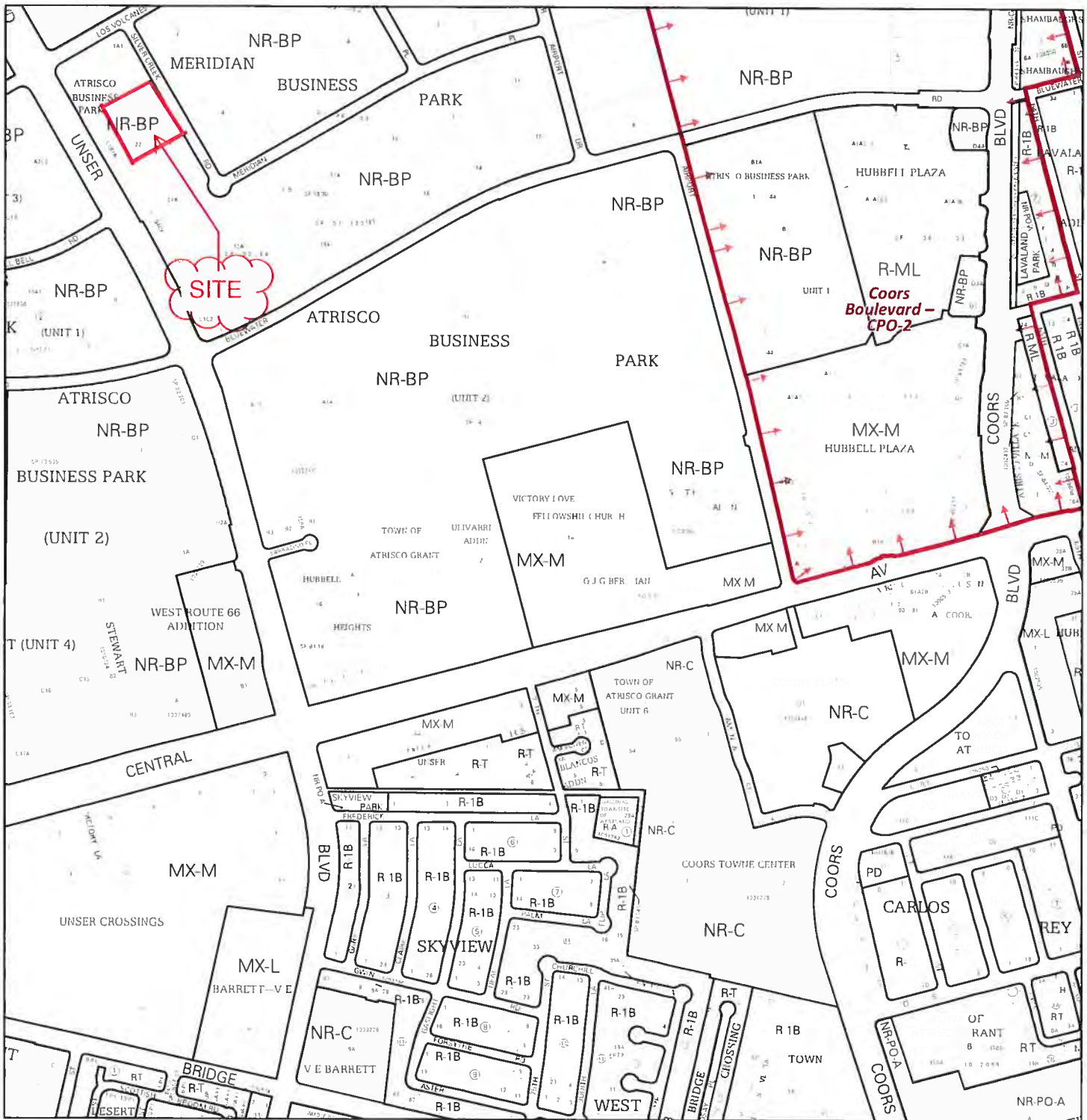


Ron Bohannon, PE #7868



TABLE OF CONTENTS

Zone Atlas Map K-10	1
Location	2
Drainage Basin Designation	2
Existing Drainage Conditions	2
FIRM Map.....	2
Design Criteria	3
Developed Drainage Conditions	3
Basin Map Proposed Conditions.....	4
Summary	3
Weighted E Table	5
AHYMO Input & Output	5
GRADING AND DRAINAGE PLAN	MAP POCKET



For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>

IDO Zone Atlas May 2018



IDO Zoning information as of May 17, 2018
The Zone Districts and Overlay Zones
are established by the
Integrated Development Ordinance (IDO).



Zone Atlas Page:

K-10-Z

Easement Escarpment

Petroglyph National Monument

Areas Outside of City Limits

Airport Protection Overlay (APO) Zone

Character Protection Overlay (CPO) Zone

Historic Protection Overlay (HPO) Zone

View Protection Overlay (VPO) Zone

0 250 500 1,000 Feet

LOCATION

The proposed commercial development is located off Silver Creek Rd south of Interstate 40, east of Unser Blvd and south of Los Volcanes Rd in southwest Albuquerque. It is comprised of approximately 2.25 acres zoned NR-BP. This report represents a drainage management and grading plan for approval by the City of Albuquerque, for Site Plan, grading and Building Permit submittal.

DRAINAGE BASIN DESIGNATION

The drainage basins for proposed conditions are as indicated on the BASIN MAP included in this report. The site is broken into ten onsite drainage basins and one upland offsite basin.

EXISTING DRAINAGE CONDITIONS

The site is currently vacant with an earthen detention pond constructed in the southeast corner of the site. It drains predominantly northwest to southeast. Runoff from an undeveloped upland basin west of the subject property drains onto the site. This runoff is combined with the onsite runoff and routed through an existing detention pond before being released to Silver Creek Rd, which then drains to the south per the Atrisco Business Park Master Drainage Plan for fully developed conditions, dated February of 1992.

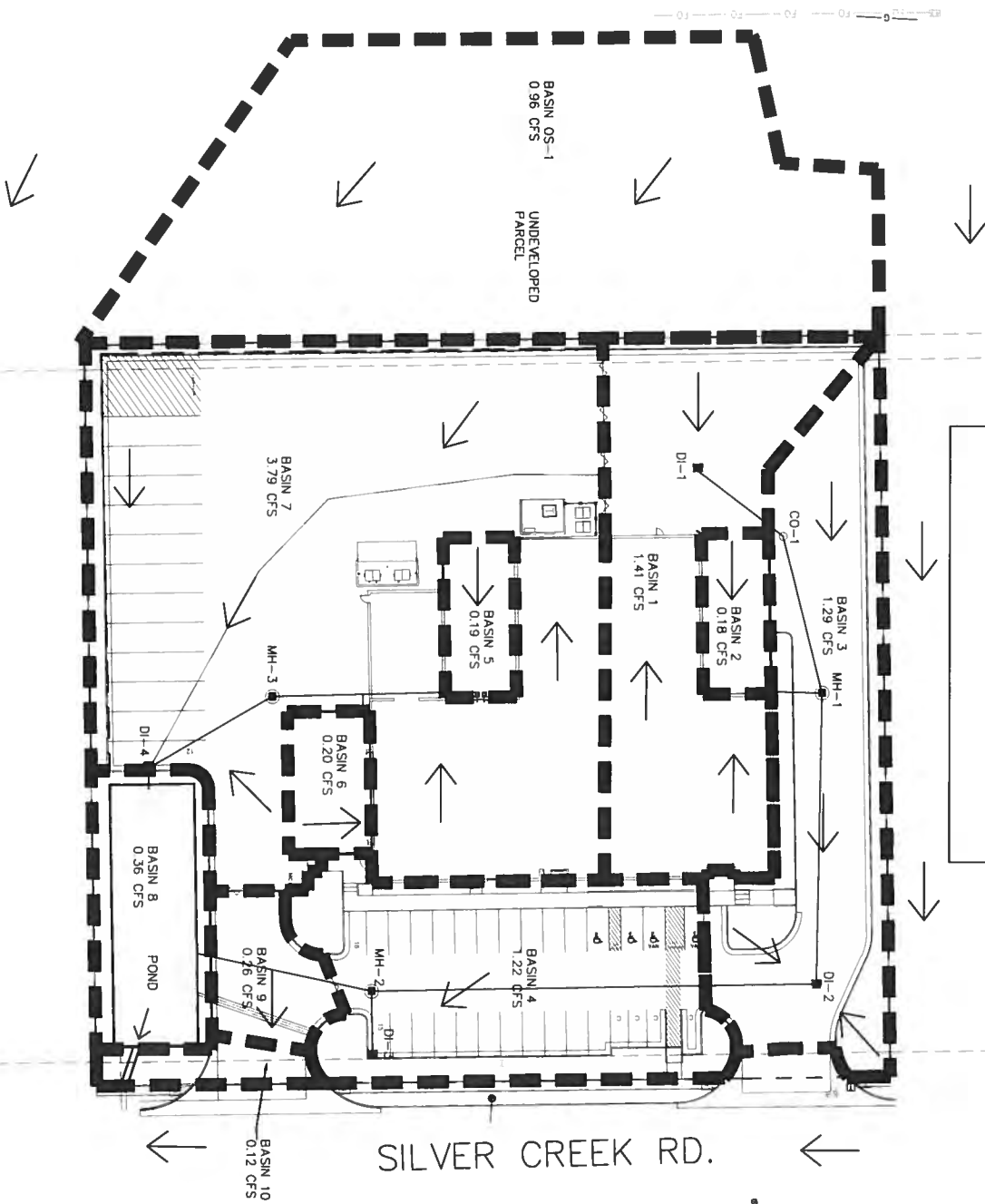
FIRM MAP

The site is not located in a flood plain as is shown on designated Flood Hazard Zone Map No. 35001C0328J dated 11/4/2016.

DESIGN-CRITERIA

The drainage plan presented in this report was prepared in accordance with the City of Albuquerque Drainage Ordinances and the Development Process Manual DPM. The hydrological analysis is based on the 100-year frequency, 6-hour duration storm. The plan will also include retention of the first flush in on-site drainage ponds. See attached Weighted E Table for excess precipitation values calculated for this site.

UNSER BLVD



BASIN MAP

NORTH

National Flood Hazard Layer FIRMette



35°52'7.93"N

106°43'53.05"W



USGS The National Map, Orthoimagery, Data refreshed October 2017

Feet

1:6,000

0

250

500

1,000

1,500

2,000

2,500

3,000

3,500

4,000

4,500

5,000

5,500

6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone AE, X, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee. See Notes, Zone X

Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

- Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

OTHER AREAS

- Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

GENERAL STRUCTURES

- Cross Sections with 1% Annual Chance
- Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

MAP PANELS

- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/31/2019 at 6:28:05 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

DEVELOPED-DRAINAGE CONDITIONS

The site is proposed to be developed with a single office / warehouse building. No offsite flows will enter the site with the exception of the undeveloped upland basin in the west of the property, which will continue to be routed through the subject site. Runoff from the site will be routed through onsite underground drainage culverts and surface swales to a storm drain detention pond, which will retain the required 1st Flush runoff volume and discharge remaining flows to Silver Creek roadway with a controlled discharge rate equal to or less than the allowable 0.1 cfs per acre. This is in compliance with the Atrisco Business Park Master Drainage Plan for fully developed conditions dated February of 1992. The storm drain pond will retain the first flush retention volumes as required by the drainage ordinance.

Refer to enclosed Weighted E computation spreadsheet for developed runoff conditions. Storm drain capacities are listed in a table in the appendix. A spreadsheet of retained and detained volumes is also included in the appendix.

SUMMARY

The proposed grading and drainage plan for the proposed development of the existing undeveloped property includes surface flows and an onsite storm drain to convey runoff to an onsite detention pond before discharging to the Silver Creek Roadway at a controlled discharge rate of equal to or less than 0.1 cfs per acre.

Zone #1
Developed Basins

1st Flush 2,279 CU.FT.
$$\text{Weighted } E = Ea \cdot Aa + Eb \cdot Ab + Ec \cdot Ac + Ed \cdot Ad / (\text{Total Area})$$

$$\text{Flow} = Qa \cdot Aa + Qb \cdot Ab + Qc \cdot Ac + Qd \cdot Ad$$

VOLUME CALCULATIONS

LOT 22 MERIDIAN

DETENTION POND W/ 1ST FLUSH RETENTION

Ab - Bottom Of The Pond Surface Area

At - Top Of The Pond Surface Area

D - Water Depth

Dt - Total Pond Depth

C - Change In Surface Area / Water Depth

$$\text{Volume} = \text{Ab} * \text{D} + 0.5 * \text{C} * \text{D}^2$$

$$\text{C} = (\text{At} - \text{Ab}) / \text{Dt}$$

$$\text{Ab} = 3,745.00 \quad \text{B.O.P.} = 5123.85$$

$$\text{At} = 3,745.00 \quad \text{T.O.P.} = 5130.00$$

$$\text{Dt} = 6.15$$

$$\text{C} = 0.00$$

$$\text{B Elev.} = 5,123.85$$

ACTUAL ELEV.	DEPTH (FT)	VOLUME (AC-FT)	Q (CFS)
5123.85	0	0	0.000
5124.85	1.00	0.0860	0.000
5125.60	1.75	0.1505	0.000
5126.60	2.75	0.2364	0.174
5127.60	3.75	0.3224	0.264
5128.60	4.75	0.4084	0.331
5129.60	5.75	0.4943	0.386
5130.00	6.15	0.5287	0.406

Orifice Equation

$$Q = \text{CA} \sqrt{2gH}$$

$$\text{C} = 0.6$$

$$\text{Diameter (in)} = 2.75$$

$$\text{Area (ft}^2\text{)} = 0.041247039$$

$$g = 32.2$$

$$\text{H (Ft)} = \text{Depth of water above center of orifice}$$

$$\text{Q (CFS)} = \text{Flow}$$


```

*****
*                               *
*           LOT 22 MERIDIAN PARK           *
*                               *
*****
* 100-YEAR, 24-HR STORM (UNDER PROPOSED CONDITIONS) W/ routing *
*****

START                TIME=0.0
*
*
RAINFALL              TYPE=2 RAIN QUARTER=0.0 IN
                      RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                      RAIN DAY=2.66 IN DT=0.05 HR
*
*
*BASIN 1
*
COMPUTE NM HYD        ID=1 HYD NO=100.1 AREA=0.00051 SQ MI
                      PER A=0.00 PER B=0.00 PER C=5.00 PER D=95.00
                      TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD             ID=1 CODE=1
*
*
*BASIN 2
*
COMPUTE NM HYD        ID=2 HYD NO=100.2 AREA=0.00006 SQ MI
                      PER A=0.00 PER B=0.00 PER C=0.00 PER D=100.00
                      TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD             ID=2 CODE=1
*
*
*BASIN 3
*
COMPUTE NM HYD        ID=3 HYD NO=100.3 AREA=0.00051 SQ MI
                      PER A=0.00 PER B=0.00 PER C=30.0 PER D=70.00
                      TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD             ID=3 CODE=1
*
*
*BASIN 4
*
COMPUTE NM HYD        ID=4 HYD NO=100.4 AREA=0.00049 SQ MI
                      PER A=0.00 PER B=0.00 PER C=30.0 PER D=70.00
                      TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD             ID=4 CODE=1
*
*
*BASIN 5
*
COMPUTE NM HYD        ID=5 HYD NO=100.5 AREA=0.00007 SQ MI
                      PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                      TP=-0.1333 HR MASS RAINFALL=-1

```



```

PRINT HYD          ID=5 CODE=1
*
*
*BASIN 6
*
COMPUTE NM HYD      ID=6 HYD NO=100.6 AREA=0.00007 SQ MI
                    PER A=0.00 PER B=0.00 PER C=0.00 PER D=100.00
                    TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD          ID=6 CODE=1
*
*
*BASIN 7
*
COMPUTE NM HYD      ID=7 HYD NO=100.7 AREA=0.00151 SQ MI
                    PER A=0.00 PER B=0.00 PER C=5.00 PER D=95.00
                    TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD          ID=7 CODE=1
*
*
*BASIN 8
*
COMPUTE NM HYD      ID=8 HYD NO=100.8 AREA=0.00019 SQ MI
                    PER A=0.00 PER B=0.00 PER C=100.0 PER D=0.00
                    TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD          ID=8 CODE=1
*
*
*BASIN 9
*
COMPUTE NM HYD      ID=9 HYD NO=100.9 AREA=0.00009 SQ MI
                    PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                    TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD          ID=9 CODE=1
*
*
*BASIN 10
*
COMPUTE NM HYD      ID=10 HYD NO=100.10 AREA=0.00005 SQ MI
                    PER A=0.00 PER B=0.00 PER C=45.0 PER D=55.00
                    TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD          ID=9 CODE=1
*
*
*BASIN OS-1
*
COMPUTE NM HYD      ID=11 HYD NO=100.11 AREA=0.00116 SQ MI
                    PER A=100.00 PER B=0.00 PER C=0.0 PER D=0.00
                    TP=-0.1333 HR MASS RAINFALL=-1

PRINT HYD          ID=11 CODE=1
*

```

```

*
ADD HYD          ID=20 HYD NO=100.20 ID=1  ID=2
ADD HYD          ID=20 HYD NO=100.20 ID=20 ID=3
ADD HYD          ID=20 HYD NO=100.20 ID=20 ID=4
ADD HYD          ID=20 HYD NO=100.20 ID=20 ID=5
ADD HYD          ID=20 HYD NO=100.20 ID=20 ID=6
ADD HYD          ID=20 HYD NO=100.20 ID=20 ID=7
ADD HYD          ID=20 HYD NO=100.20 ID=20 ID=8
ADD HYD          ID=20 HYD NO=100.20 ID=20 ID=9
ADD HYD          ID=20 HYD NO=100.20 ID=20 ID=11

```

```

*
*
*ROUTE BASIN 1 THRU 9 & OS-1 THROUGH DETENTION POND

```

```

*
ROUTE RESERVOIR  ID=55 HYD NO=200.1 INFLOW ID=20 CODE=24
                  OUTFLOW (CFS) STORAGE(AC-FT) ELEVATION(FT)
                  0.000          0.0000          23.85
                  0.010          0.0860          24.85
                  0.020          0.1505          25.60
                  0.174          0.2364          26.60
                  0.264          0.3224          27.60
                  0.331          0.4084          28.60
                  0.386          0.4943          29.60
                  0.406          0.5287          30.00

```

```

*
PRINT HYD        ID=55  CODE=1

```

```

*
*
ADD HYD          ID=60 HYD NO=100.60 ID=10 ID=55

```

```

*
PRINT HYD        ID=60  CODE=1

```

```

*
*
FINISH

```


AHYMO PROGRAM (AHYMO-S4)

- Version: S4.01a - Rel: 01a

RUN DATE (MON/DAY/YR) = 06/24/2020

START TIME (HR:MIN:SEC) = 13:39:25

USER NO.=

AHYMO_Temp_User:20122010

INPUT FILE = Z:\2020\2020033-Lot 22 Meridian Business
Park\Drainage\hymoLot22.txt

* LOT 22 MERIDIAN PARK *

* 100-YEAR, 24-HR STORM (UNDER PROPOSED CONDITIONS) W/ routing *

START TIME=0.0

*

*

RAINFALL TYPE=2 RAIN QUARTER=0.0 IN
RAIN ONE=1.87 IN RAIN SIX=2.20 IN
RAIN DAY=2.66 IN DT=0.05 HR

24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE
AREAS (NM & AZ) - D1

DT =	0.050000 HOURS	END TIME =	24.000002 HOURS
0.0000	0.0022	0.0045	0.0069
0.0096	0.0123	0.0154	
0.0197	0.0264	0.0336	0.0412
0.0494	0.0578	0.0664	
0.0753	0.0844	0.0946	0.1052
0.1168	0.1387	0.1657	
0.2020	0.2430	0.2937	0.3614
0.4375	0.5689	0.7733	
1.1234	1.3695	1.5635	1.6610
1.7465	1.8079	1.8568	
1.8994	1.9306	1.9592	1.9828
1.9979	2.0087	2.0183	
2.0273	2.0352	2.0426	2.0499
2.0568	2.0625	2.0659	
2.0692	2.0724	2.0754	2.0784
2.0813	2.0842	2.0870	
2.0896	2.0923	2.0949	2.0974
2.0999	2.1023	2.1046	
2.1069	2.1092	2.1115	2.1136
2.1158	2.1179	2.1199	
2.1220	2.1240	2.1260	2.1280
2.1299	2.1318	2.1337	
2.1356	2.1374	2.1392	2.1411
2.1428	2.1446	2.1463	
2.1481	2.1498	2.1514	2.1531
2.1548	2.1564	2.1580	
2.1596	2.1612	2.1628	2.1643
2.1658	2.1674	2.1689	
2.1704	2.1718	2.1733	2.1747
2.1762	2.1776	2.1790	
2.1804	2.1818	2.1832	2.1845
2.1859	2.1872	2.1885	
2.1899	2.1912	2.1924	2.1937
2.1950	2.1963	2.1975	
2.1988	2.2000	2.2013	2.2026
2.2038	2.2051	2.2064	
2.2077	2.2089	2.2102	2.2115
2.2128	2.2141	2.2153	
2.2166	2.2179	2.2192	2.2204
2.2217	2.2230	2.2243	
2.2256	2.2268	2.2281	2.2294
2.2307	2.2319	2.2332	
2.2345	2.2358	2.2371	2.2383
2.2396	2.2409	2.2422	
2.2434	2.2447	2.2460	2.2473
2.2486	2.2498	2.2511	
2.2524	2.2537	2.2549	2.2562
2.2575	2.2588	2.2601	
2.2613	2.2626	2.2639	2.2652
2.2664	2.2677	2.2690	
2.2703	2.2716	2.2728	2.2741
2.2754	2.2767	2.2779	
2.2792	2.2805	2.2818	2.2831
2.2843	2.2856	2.2869	

2.2882	2.2894	2.2907	2.2920	2.2933	2.2946	2.2958
2.2971	2.2984	2.2997	2.3009	2.3022	2.3035	2.3048
2.3061	2.3073	2.3086	2.3099	2.3112	2.3124	2.3137
2.3150	2.3163	2.3176	2.3188	2.3201	2.3214	2.3227
2.3239	2.3252	2.3265	2.3278	2.3291	2.3303	2.3316
2.3329	2.3342	2.3354	2.3367	2.3380	2.3393	2.3406
2.3418	2.3431	2.3444	2.3457	2.3469	2.3482	2.3495
2.3508	2.3521	2.3533	2.3546	2.3559	2.3572	2.3584
2.3597	2.3610	2.3623	2.3636	2.3648	2.3661	2.3674
2.3687	2.3699	2.3712	2.3725	2.3738	2.3750	2.3763
2.3776	2.3789	2.3802	2.3814	2.3827	2.3840	2.3853
2.3865	2.3878	2.3891	2.3904	2.3917	2.3929	2.3942
2.3955	2.3968	2.3980	2.3993	2.4006	2.4019	2.4032
2.4044	2.4057	2.4070	2.4083	2.4095	2.4108	2.4121
2.4134	2.4147	2.4159	2.4172	2.4185	2.4198	2.4210
2.4223	2.4236	2.4249	2.4262	2.4274	2.4287	2.4300
2.4313	2.4325	2.4338	2.4351	2.4364	2.4377	2.4389
2.4402	2.4415	2.4428	2.4440	2.4453	2.4466	2.4479
2.4492	2.4504	2.4517	2.4530	2.4543	2.4555	2.4568
2.4581	2.4594	2.4607	2.4619	2.4632	2.4645	2.4658
2.4670	2.4683	2.4696	2.4709	2.4722	2.4734	2.4747
2.4760	2.4773	2.4785	2.4798	2.4811	2.4824	2.4837
2.4849	2.4862	2.4875	2.4888	2.4900	2.4913	2.4926
2.4939	2.4952	2.4964	2.4977	2.4990	2.5003	2.5015
2.5028	2.5041	2.5054	2.5067	2.5079	2.5092	2.5105
2.5118	2.5130	2.5143	2.5156	2.5169	2.5182	2.5194
2.5207	2.5220	2.5233	2.5245	2.5258	2.5271	2.5284
2.5297	2.5309	2.5322	2.5335	2.5348	2.5360	2.5373
2.5386	2.5399	2.5412	2.5424	2.5437	2.5450	2.5463
2.5475	2.5488	2.5501	2.5514	2.5527	2.5539	2.5552
2.5565	2.5578	2.5590	2.5603	2.5616	2.5629	2.5642
2.5654	2.5667	2.5680	2.5693	2.5705	2.5718	2.5731
2.5744	2.5757	2.5769	2.5782	2.5795	2.5808	2.5820
2.5833	2.5846	2.5859	2.5872	2.5884	2.5897	2.5910
2.5923	2.5935	2.5948	2.5961	2.5974	2.5987	2.5999
2.6012	2.6025	2.6038	2.6050	2.6063	2.6076	2.6089
2.6102	2.6114	2.6127	2.6140	2.6153	2.6165	2.6178
2.6191	2.6204	2.6217	2.6229	2.6242	2.6255	2.6268
2.6280	2.6293	2.6306	2.6319	2.6332	2.6344	2.6357
2.6370	2.6383	2.6395	2.6408	2.6421	2.6434	2.6447
2.6459	2.6472	2.6485	2.6498	2.6510	2.6523	2.6536
2.6549	2.6562	2.6574	2.6587	2.6600		

*

*

*BASIN 1

*

COMPUTE NM HYD

ID=1 HYD NO=100.1 AREA=0.00051 SQ MI

PER A=0.00 PER B=0.00 PER C=5.00 PER D=95.00

TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE
 CONSTANT, N = 7.106428
 UNIT PEAK = 1.9128 CFS UNIT VOLUME = 0.9941 B = 526.28
 P60 = 1.8700
 AREA = 0.000485 SQ MI IA = 0.10000 INCHES INF = 0.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199 SHAPE
 CONSTANT, N = 4.514592
 UNIT PEAK = 0.74249E-01CFS UNIT VOLUME = 0.8908 B = 388.14
 P60 = 1.8700
 AREA = 0.000026 SQ MI IA = 0.35000 INCHES INF = 0.83000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 100.10

RUNOFF VOLUME = 2.34917 INCHES = 0.0639 ACRE-FEET
 PEAK DISCHARGE RATE = 1.45 CFS AT 1.500 HOURS BASIN AREA =
 0.0005 SQ. MI.

*
 *
 *BASIN 2
 *

COMPUTE NM HYD ID=2 HYD NO=100.2 AREA=0.00006 SQ MI
 PER A=0.00 PER B=0.00 PER C=0.00 PER D=100.00
 TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE
 CONSTANT, N = 7.106428
 UNIT PEAK = 0.23688 CFS UNIT VOLUME = 0.9593 B = 526.28
 P60 = 1.8700
 AREA = 0.000060 SQ MI IA = 0.10000 INCHES INF = 0.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 100.20

RUNOFF VOLUME = 2.41566 INCHES = 0.0077 ACRE-Feet
 PEAK DISCHARGE RATE = 0.18 CFS AT 1.500 HOURS BASIN AREA =
 0.0001 SQ. MI.

*

*

*BASIN 3

*

COMPUTE NM HYD ID=3 HYD NO=100.3 AREA=0.00051 SQ MI
 PER A=0.00 PER B=0.00 PER C=30.0 PER D=70.00
 TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE
 CONSTANT, N = 7.106428
 UNIT PEAK = 1.4095 CFS UNIT VOLUME = 0.9911 B = 526.28
 P60 = 1.8700
 AREA = 0.000357 SQ MI IA = 0.10000 INCHES INF = 0.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199 SHAPE
 CONSTANT, N = 4.514592
 UNIT PEAK = 0.44550 CFS UNIT VOLUME = 0.9748 B = 388.14
 P60 = 1.8700
 AREA = 0.000153 SQ MI IA = 0.35000 INCHES INF = 0.83000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000

PRINT HYD ID=3 CODE=1

PARTIAL HYDROGRAPH 100.30

RUNOFF VOLUME = 2.01673 INCHES = 0.0549 ACRE-Feet
 PEAK DISCHARGE RATE = 1.35 CFS AT 1.500 HOURS BASIN AREA =
 0.0005 SQ. MI.

*

*

*BASIN 4

*

COMPUTE NM HYD ID=4 HYD NO=100.4 AREA=0.00049 SQ MI
PER A=0.00 PER B=0.00 PER C=30.0 PER D=70.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE
CONSTANT, N = 7.106428
UNIT PEAK = 1.3542 CFS UNIT VOLUME = 0.9911 B = 526.28
P60 = 1.8700
AREA = 0.000343 SQ MI IA = 0.10000 INCHES INF = 0.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199 SHAPE
CONSTANT, N = 4.514592
UNIT PEAK = 0.42803 CFS UNIT VOLUME = 0.9748 B = 388.14
P60 = 1.8700
AREA = 0.000147 SQ MI IA = 0.35000 INCHES INF = 0.83000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

PRINT HYD ID=4 CODE=1

PARTIAL HYDROGRAPH 100.40

RUNOFF VOLUME = 2.01673 INCHES = 0.0527 ACRE-FEET
PEAK DISCHARGE RATE = 1.29 CFS AT 1.500 HOURS BASIN AREA =
0.0005 SQ. MI.

*

*

*BASIN 5

*

COMPUTE NM HYD ID=5 HYD NO=100.5 AREA=0.00007 SQ MI
PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE
CONSTANT, N = 7.106428
UNIT PEAK = 0.27636 CFS UNIT VOLUME = 0.9593 B = 526.28
P60 = 1.8700
AREA = 0.000070 SQ MI IA = 0.10000 INCHES INF = 0.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =

0.050000

PRINT HYD ID=5 CODE=1

PARTIAL HYDROGRAPH 100.50

RUNOFF VOLUME = 2.41566 INCHES = 0.0090 ACRE-FEET
PEAK DISCHARGE RATE = 0.21 CFS AT 1.500 HOURS BASIN AREA =
0.0001 SQ. MI.

*

*

*BASIN 6

*

COMPUTE NM HYD ID=6 HYD NO=100.6 AREA=0.00007 SQ MI
PER A=0.00 PER B=0.00 PER C=0.00 PER D=100.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE
CONSTANT, N = 7.106428

UNIT PEAK = 0.27636 CFS UNIT VOLUME = 0.9593 B = 526.28
P60 = 1.8700

AREA = 0.000070 SQ MI IA = 0.10000 INCHES INF = 0.04000
INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

PRINT HYD ID=6 CODE=1

PARTIAL HYDROGRAPH 100.60

RUNOFF VOLUME = 2.41566 INCHES = 0.0090 ACRE-FEET
PEAK DISCHARGE RATE = 0.21 CFS AT 1.500 HOURS BASIN AREA =
0.0001 SQ. MI.

*

*

*BASIN 7

*

COMPUTE NM HYD ID=7 HYD NO=100.7 AREA=0.00151 SQ MI
PER A=0.00 PER B=0.00 PER C=5.00 PER D=95.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE

CONSTANT, N = 7.106428
UNIT PEAK = 5.6635 CFS UNIT VOLUME = 0.9971 B = 526.28
P60 = 1.8700
AREA = 0.001435 SQ MI IA = 0.10000 INCHES INF = 0.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199 SHAPE
CONSTANT, N = 4.514592
UNIT PEAK = 0.21984 CFS UNIT VOLUME = 0.9426 B = 388.14
P60 = 1.8700
AREA = 0.000076 SQ MI IA = 0.35000 INCHES INF = 0.83000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

PRINT HYD ID=7 CODE=1

PARTIAL HYDROGRAPH 100.70

RUNOFF VOLUME = 2.34917 INCHES = 0.1892 ACRE-FEET
PEAK DISCHARGE RATE = 4.28 CFS AT 1.500 HOURS BASIN AREA =
0.0015 SQ. MI.

*
*
*BASIN 8
*

COMPUTE NM HYD ID=8 HYD NO=100.8 AREA=0.00019 SQ MI
PER A=0.00 PER B=0.00 PER C=100.0 PER D=0.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199 SHAPE
CONSTANT, N = 4.514592
UNIT PEAK = 0.55323 CFS UNIT VOLUME = 0.9787 B = 388.14
P60 = 1.8700
AREA = 0.000190 SQ MI IA = 0.35000 INCHES INF = 0.83000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

PRINT HYD ID=8 CODE=1

PARTIAL HYDROGRAPH 100.80

RUNOFF VOLUME = 1.08591 INCHES = 0.0110 ACRE-FEET
PEAK DISCHARGE RATE = 0.39 CFS AT 1.500 HOURS BASIN AREA =
0.0002 SQ. MI.

*

*

*BASIN 9

*

COMPUTE NM HYD ID=9 HYD NO=100.9 AREA=0.00009 SQ MI
PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE
CONSTANT, N = 7.106428
UNIT PEAK = 0.35532 CFS UNIT VOLUME = 0.9674 B = 526.28
P60 = 1.8700
AREA = 0.000090 SQ MI IA = 0.10000 INCHES INF = 0.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

PRINT HYD ID=9 CODE=1

PARTIAL HYDROGRAPH 100.90

RUNOFF VOLUME = 2.41566 INCHES = 0.0116 ACRE-FEET
PEAK DISCHARGE RATE = 0.27 CFS AT 1.500 HOURS BASIN AREA =
0.0001 SQ. MI.

*

*

*BASIN 10

*

COMPUTE NM HYD ID=10 HYD NO=100.10 AREA=0.00005 SQ MI
PER A=0.00 PER B=0.00 PER C=45.0 PER D=55.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE
CONSTANT, N = 7.106428
UNIT PEAK = 0.10857 CFS UNIT VOLUME = 0.8994 B = 526.28
P60 = 1.8700
AREA = 0.000028 SQ MI IA = 0.10000 INCHES INF = 0.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =

0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199 SHAPE
CONSTANT, N = 4.514593
UNIT PEAK = 0.65514E-01CFS UNIT VOLUME = 0.8908 B = 388.14
P60 = 1.8700
AREA = 0.000023 SQ MI IA = 0.35000 INCHES INF = 0.83000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

PRINT HYD ID=9 CODE=1

PARTIAL HYDROGRAPH 100.90

RUNOFF VOLUME = 2.41566 INCHES = 0.0116 ACRE-FEET
PEAK DISCHARGE RATE = 0.27 CFS AT 1.500 HOURS BASIN AREA =
0.0001 SQ. MI.

*

*

*BASIN OS-1

*

COMPUTE NM HYD ID=11 HYD NO=100.11 AREA=0.00116 SQ MI
PER A=100.00 PER B=0.00 PER C=0.0 PER D=0.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.163684HR TP = 0.133300HR K/TP RATIO = 1.227936 SHAPE
CONSTANT, N = 2.899626
UNIT PEAK = 2.3804 CFS UNIT VOLUME = 0.9922 B = 273.54
P60 = 1.8700
AREA = 0.001160 SQ MI IA = 0.65000 INCHES INF = 1.67000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

PRINT HYD ID=11 CODE=1

PARTIAL HYDROGRAPH 100.11

RUNOFF VOLUME = 0.62863 INCHES = 0.0389 ACRE-FEET
PEAK DISCHARGE RATE = 1.29 CFS AT 1.550 HOURS BASIN AREA =
0.0012 SQ. MI.

*

*

ADD HYD ID=20 HYD NO=100.20 ID=1 ID=2

ADD HYD ID=20 HYD NO=100.20 ID=20 ID=3

ADD HYD ID=20 HYD NO=100.20 ID=20 ID=4

ADD HYD ID=20 HYD NO=100.20 ID=20 ID=5

ADD HYD ID=20 HYD NO=100.20 ID=20 ID=6

ADD HYD ID=20 HYD NO=100.20 ID=20 ID=7

ADD HYD ID=20 HYD NO=100.20 ID=20 ID=8

ADD HYD ID=20 HYD NO=100.20 ID=20 ID=9

ADD HYD ID=20 HYD NO=100.20 ID=20 ID=11

*

*

*ROUTE BASIN 1 THRU 9 & OS-1 THROUGH DETENTION POND

*

*

ROUTE RESERVOIR	ID=55	HYD NO=200.1	INFLOW	ID=20	CODE=24
		OUTFLOW (CFS)	STORAGE(AC-FT)	ELEVATION(FT)	
		0.000	0.0000		23.85
		0.010	0.0860		24.85
		0.020	0.1505		25.60
		0.174	0.2364		26.60
		0.264	0.3224		27.60
		0.331	0.4084		28.60
		0.386	0.4943		29.60
		0.406	0.5287		30.00

* * * * *

TIME	INFLOW	ELEV	VOLUME	OUTFLOW
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)

0.00	0.00	23.85	0.000	0.00
1.20	1.32	24.03	0.015	0.00
2.40	0.32	27.87	0.346	0.28
3.60	0.02	27.64	0.326	0.27
4.80	0.03	27.37	0.302	0.24
6.00	0.04	27.14	0.283	0.22
7.20	0.05	26.94	0.266	0.21
8.40	0.05	26.77	0.251	0.19
9.60	0.05	26.62	0.238	0.18
10.80	0.05	26.48	0.226	0.16
12.00	0.05	26.36	0.216	0.14
13.20	0.05	26.27	0.208	0.12
14.40	0.05	26.19	0.201	0.11
15.60	0.05	26.12	0.195	0.10
16.80	0.05	26.06	0.190	0.09
18.00	0.05	26.02	0.186	0.08
19.20	0.05	25.98	0.183	0.08
20.40	0.05	25.94	0.180	0.07
21.60	0.05	25.92	0.178	0.07
22.80	0.05	25.89	0.176	0.07
24.00	0.05	25.87	0.174	0.06
25.20	0.00	25.81	0.169	0.05
26.40	0.00	25.76	0.164	0.04
27.60	0.00	25.71	0.160	0.04
28.80	0.00	25.67	0.157	0.03
30.00	0.00	25.64	0.154	0.03
31.20	0.00	25.61	0.152	0.02
32.40	0.00	25.59	0.149	0.02
33.60	0.00	25.57	0.148	0.02
34.80	0.00	25.54	0.146	0.02
36.00	0.00	25.52	0.144	0.02
37.20	0.00	25.50	0.142	0.02
38.40	0.00	25.48	0.140	0.02
39.60	0.00	25.46	0.138	0.02
40.80	0.00	25.44	0.136	0.02
42.00	0.00	25.42	0.135	0.02
43.20	0.00	25.40	0.133	0.02
44.40	0.00	25.38	0.131	0.02
45.60	0.00	25.36	0.130	0.02
46.80	0.00	25.34	0.128	0.02
48.00	0.00	25.32	0.126	0.02
49.20	0.00	25.30	0.125	0.02
50.40	0.00	25.28	0.123	0.02
51.60	0.00	25.26	0.122	0.02
52.80	0.00	25.25	0.120	0.02
54.00	0.00	25.23	0.119	0.02
55.20	0.00	25.21	0.117	0.01
56.40	0.00	25.19	0.116	0.01
57.60	0.00	25.18	0.114	0.01
58.80	0.00	25.16	0.113	0.01

60.00	0.00	25.14	0.111	0.01
61.20	0.00	25.13	0.110	0.01
62.40	0.00	25.11	0.109	0.01
63.60	0.00	25.10	0.107	0.01
64.80	0.00	25.08	0.106	0.01
66.00	0.00	25.07	0.105	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
67.20	0.00	25.05	0.103	0.01
68.40	0.00	25.04	0.102	0.01
69.60	0.00	25.02	0.101	0.01
70.80	0.00	25.01	0.100	0.01
72.00	0.00	25.00	0.099	0.01
73.20	0.00	24.98	0.097	0.01
74.40	0.00	24.97	0.096	0.01
75.60	0.00	24.96	0.095	0.01
76.80	0.00	24.94	0.094	0.01
78.00	0.00	24.93	0.093	0.01
79.20	0.00	24.92	0.092	0.01
80.40	0.00	24.90	0.091	0.01
81.60	0.00	24.89	0.090	0.01
82.80	0.00	24.88	0.089	0.01
84.00	0.00	24.87	0.088	0.01
85.20	0.00	24.86	0.087	0.01
86.40	0.00	24.85	0.086	0.01
87.60	0.00	24.83	0.085	0.01
88.80	0.00	24.82	0.084	0.01
90.00	0.00	24.81	0.083	0.01
91.20	0.00	24.80	0.082	0.01
92.40	0.00	24.79	0.081	0.01
93.60	0.00	24.78	0.080	0.01
94.80	0.00	24.77	0.079	0.01
96.00	0.00	24.76	0.078	0.01
97.20	0.00	24.75	0.077	0.01
98.40	0.00	24.74	0.076	0.01
99.60	0.00	24.73	0.075	0.01
100.80	0.00	24.72	0.075	0.01
102.00	0.00	24.71	0.074	0.01
103.20	0.00	24.70	0.073	0.01
104.40	0.00	24.69	0.072	0.01
105.60	0.00	24.68	0.071	0.01
106.80	0.00	24.67	0.070	0.01
108.00	0.00	24.66	0.070	0.01
109.20	0.00	24.65	0.069	0.01
110.40	0.00	24.64	0.068	0.01
111.60	0.00	24.63	0.067	0.01
112.80	0.00	24.62	0.066	0.01
114.00	0.00	24.61	0.066	0.01

115.20	0.00	24.60	0.065	0.01
116.40	0.00	24.60	0.064	0.01
117.60	0.00	24.59	0.063	0.01
118.80	0.00	24.58	0.063	0.01
120.00	0.00	24.57	0.062	0.01
121.20	0.00	24.56	0.061	0.01
122.40	0.00	24.55	0.061	0.01
123.60	0.00	24.55	0.060	0.01
124.80	0.00	24.54	0.059	0.01
126.00	0.00	24.53	0.058	0.01
127.20	0.00	24.52	0.058	0.01
128.40	0.00	24.51	0.057	0.01
129.60	0.00	24.51	0.056	0.01
130.80	0.00	24.50	0.056	0.01
132.00	0.00	24.49	0.055	0.01
133.20	0.00	24.48	0.055	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
134.40	0.00	24.48	0.054	0.01
135.60	0.00	24.47	0.053	0.01
136.80	0.00	24.46	0.053	0.01
138.00	0.00	24.46	0.052	0.01
139.20	0.00	24.45	0.052	0.01
140.40	0.00	24.44	0.051	0.01
141.60	0.00	24.44	0.050	0.01
142.80	0.00	24.43	0.050	0.01
144.00	0.00	24.42	0.049	0.01
145.20	0.00	24.42	0.049	0.01
146.40	0.00	24.41	0.048	0.01
147.60	0.00	24.40	0.048	0.01
148.80	0.00	24.40	0.047	0.01
150.00	0.00	24.39	0.046	0.01
151.20	0.00	24.38	0.046	0.01
152.40	0.00	24.38	0.045	0.01
153.60	0.00	24.37	0.045	0.01
154.80	0.00	24.37	0.044	0.01
156.00	0.00	24.36	0.044	0.01
157.20	0.00	24.35	0.043	0.01
158.40	0.00	24.35	0.043	0.00

PEAK DISCHARGE = 0.282 CFS - PEAK OCCURS AT HOUR 2.45

MAXIMUM WATER SURFACE ELEVATION = 27.870

MAXIMUM STORAGE = 0.3456 AC-FT INCREMENTAL TIME= 0.050000HRS

*

PRINT HYD ID=55 CODE=1

PARTIAL HYDROGRAPH 200.10

RUNOFF VOLUME = 1.67964 INCHES = 0.4174 ACRE-FeET
PEAK DISCHARGE RATE = 0.28 CFS AT 2.450 HOURS BASIN AREA =
0.0047 SQ. MI.

*

*

ADD HYD ID=60 HYD NO=100.60 ID=10 ID=55

*

PRINT HYD ID=60 CODE=1

PARTIAL HYDROGRAPH 100.60

RUNOFF VOLUME = 1.67808 INCHES = 0.4215 ACRE-FeET
PEAK DISCHARGE RATE = 0.28 CFS AT 2.350 HOURS BASIN AREA =
0.0047 SQ. MI.

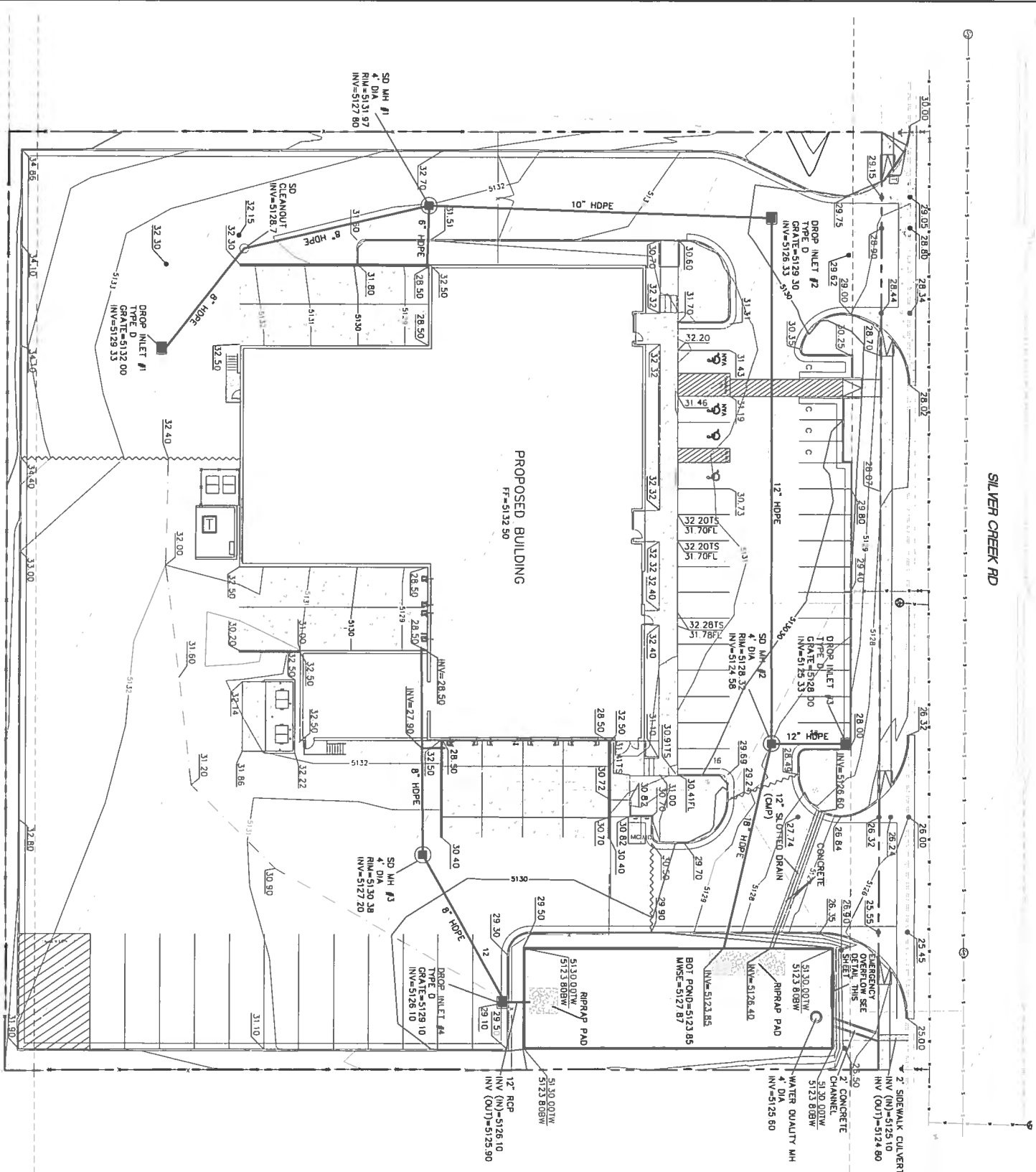
*

*

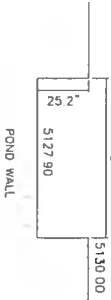
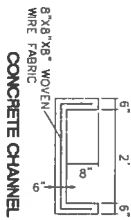
FINISH

NORMAL PROGRAM FINISH

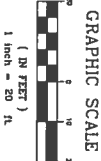
END TIME (HR:MIN:SEC) = 13:39:25



- LEGEND**
- CURB & CUTTER
 - BOUNDARY LINE
 - EASEMENT
 - BUILDING
 - SIDEWALK
 - EXISTING CURB & CUTTER
 - EXISTING BOUNDARY LINE
 - STORM DRAIN LINE
 - DROP INLET
 - STORM DRAIN MANHOLE
 - TRANSFORMER
 - RETAINING WALL

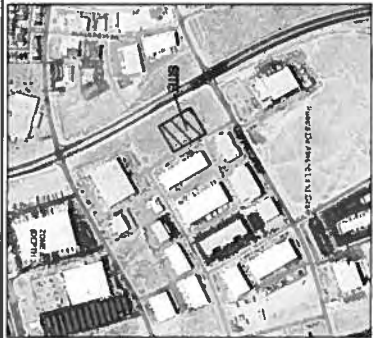
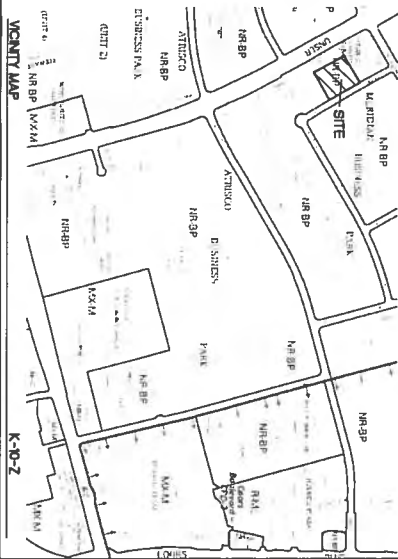


EMERGENCY OVERFLOW



CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD EXCAVATION, INVESTIGATION AND SURVEYING TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS. PRIOR TO STARTING THE WORK, ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.



FINAL MAP 39000003240

NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1999
- NO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST OBTAIN A CITY OF ALBUQUERQUE PERMIT, 755-1125, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXAMINE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES AND STRUCTURES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY CONFLICTS WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO RMATC/STREET USE
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED
- WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS

EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PRODUCT
- ALL SLOPES NOT STABILIZED AT THE END OF THE PROJECT SHALL BE STABILIZED IN ACCORDANCE WITH COA SPECS OR 3" GRAVEL.

ENGINEER'S SEAL		DRAWN BY	
RONALD R. BOHANNAN		DM	
ALBUQUERQUE, NM		DATE	
LOT 22 MASTER UTILITY		7-18-2020	
PLAN		DRAWING	
5571 MIDWAY PARK PL. W.E.		2020033-CR	
ALBUQUERQUE, NEW MEXICO 87109		SHEET 1	
www.terrafenric.com		CR-1	
P.E. #7868		JOB #	
2020033		2020033	