

# CITY OF ALBUQUERQUE



July 18, 2017

Scott Eddings, PE  
Huitt-Zollers Inc.  
6561 Americas Parkway NE  
Albuquerque, NM 87110

**Re: Winrock Town Center – Phase B  
2100 Louisiana NE  
Revised Grading and Drainage Plan  
Engineer's stamp date: 7/17/17 (J19D058E)**

Dear Mr. Eddings,

Based on the submittal received 7/17/17, this project cannot be approved for revised building permit until the following are addressed:

1. This grading and drainage plan needs to include all exterior improvement on the site, especially the design for draining the problem areas noted on the east side of the building at the last Hydrology inspection (6/22/17). Exterior work affecting drainage cannot be deferred to tenant improvements.
2. The rock lined channel needs to account for freeboard (see DPM Ch22.3.C.4). Also the channel slope does not match what's shown on the grading plan and a rectangular rock-lined channel does not seem constructible.
3. How does pond 2 outfall to the ROW?
4. Show the slope of all storm drain pipes on the plan.
5. Show the invert in and invert out on all inlets.

If you have any questions, please contact me at 924-3695.

Sincerely,

Dana Peterson, P.E.,  
Senior Engineer, Planning Department  
Development and Review Services

PO Box 1293

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)



# City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

**Project Title:** Winrock Town Center – Section 8 Building Permit #: \_\_\_\_\_ Hydrology File #: J19D

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

Legal Description: Tract B-Hunt Development

City Address: 2100 Louisiana Blvd NE

**Applicant:** Huitt-Zollars, Inc Contact: Scott Eddings

Address: 333 Rio Rancho Blvd, Rio Rancho NM, 87124

Phone#: 505-892-5141 Fax#: 505-892-3259 E-mail: [seddings@huitt-zollars.com](mailto:seddings@huitt-zollars.com)

**Other Contact:** Goodman Realty Contact: Fred Gorenz

Address: 100 Sun Avenue

Phone#: 881-0100 Fax#: NA E-mail: NA

Check all that Apply:

**DEPARTMENT:**

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

**TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

- BUILDING PERMIT APPROVAL
- TEMPORARY CERTIFICATE OF OCCUPANCY

**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)

- 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

OTHER (SPECIFY) Grading Plan  
Resubmittal for Shell

**PRE-DESIGN MEETING?**

IS THIS A RESUBMITTAL?:  Yes  No

OTHER (SPECIFY) \_\_\_\_\_

DATE SUBMITTED: July 17, 2017

By: Scott Eddings



April 29, 2016

Scott Eddings, P.E.  
Huitt-Zollars  
6501 Americas Parkway NE  
Albuquerque, New Mexico 87110

Richard J. Berry, Mayor

**RE: Winrock Town Center – Phase B (J19D058E)  
Grading Plan, Engineer's Stamp Date: 3-11-2016**

Dear Mr. Eddings:

Based upon the information provided in your submittal received 3-31-16, the above referenced plan is approved for ESC Permit (Building Permit) with the following condition:

- Show the slope of all storm drain pipe on the plan
- Show the Invert in and invert out on all inlets

Curtis Cherne verbally confirmed that the ESC plan has been approved.

PO Box 1293

Please attach a copy of this approved plan in the construction sets when submitting for a building permit.

Albuquerque

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

New Mexico 87103

If you have any questions, you can contact me at 924-3695.

www.cabq.gov

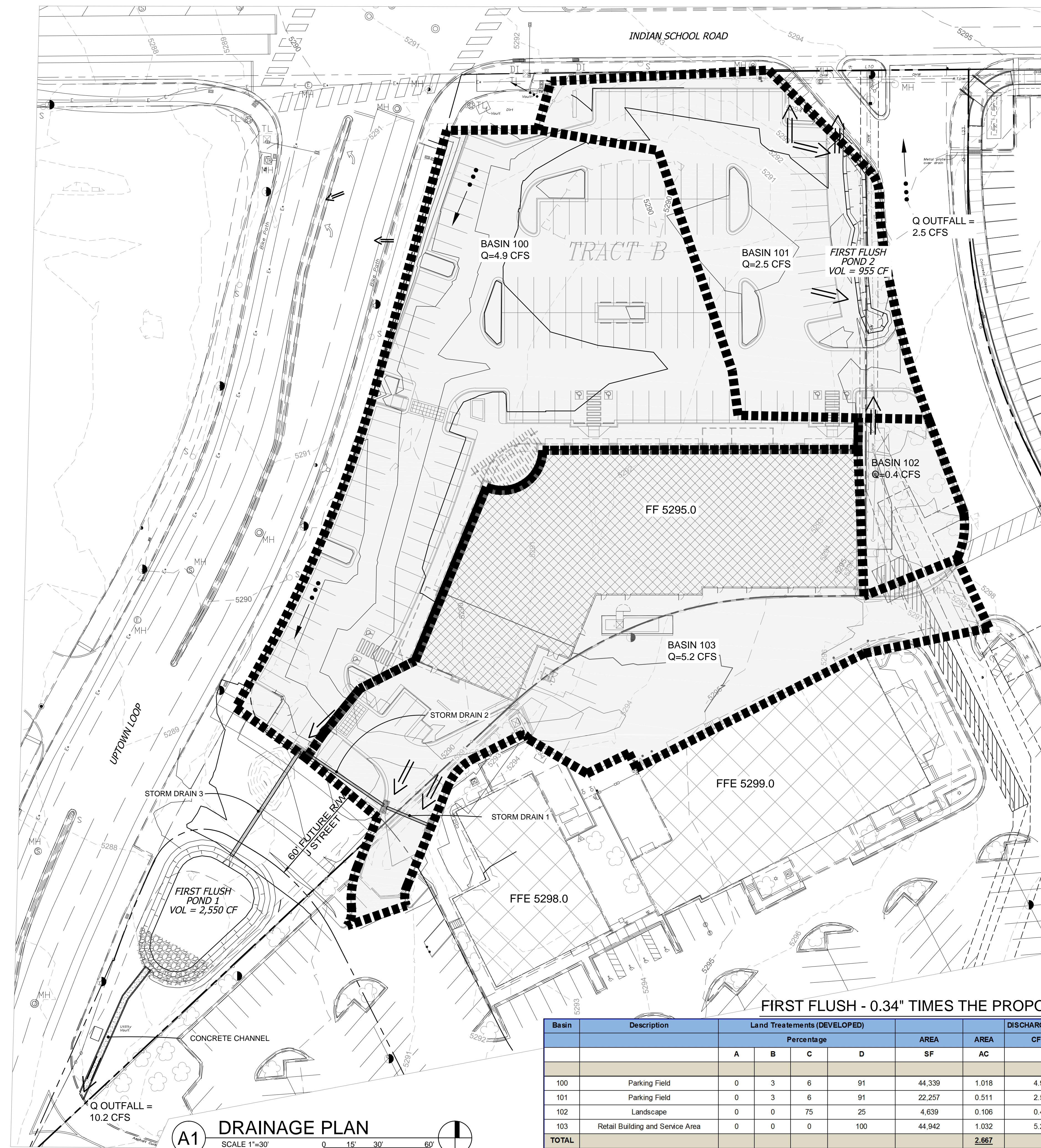
Sincerely,

Rita Harmon, P.E.  
Senior Engineer, Planning Dept.  
Development Review Services

Orig: Drainage file  
c.pdf via Email: Recipient



Printed: 7/16/2017 9:01:18 PM, By: Edgings, Scott  
 H:\proj\350565\01 Winrock\010 Winrock\010 CAD\350565.dwg  
 User: scott.edgings 7/16/2017 9:01:18 PM



FIRST FLUSH - 0.34" TIMES THE PROPOSED IMPERVIOUS AREA

Basin	Description	Land Treatments (DEVELOPED)				AREA SF	AREA AC	DISCHARGE RATE CFS	FIRST FLUSH VOLUME REQUIRED VOLUME CF	8" DEEP DEPRESSED LANDSCAPE AREA REQUIRED SQUARE FEET
		Percentage								
		A	B	C	D					
100	Parking Field	0	3	6	91	44,339	1.018	4.9	1,143.21	
101	Parking Field	0	3	6	91	22,257	0.511	2.5	573.86	
102	Landscape	0	0	75	25	4,639	0.106	0.4	32.86	
103	Retail Building and Service Area	0	0	0	100	44,942	1.032	5.2	1,273.36	
<b>TOTAL</b>						<b>2,667</b>	<b>2.667</b>		<b>3,023.28</b>	<b>4,534.92</b>

**EXISTING DRAINAGE CONDITIONS**

THIS SITE IS UNDEVELOPED AND DISCHARGES ONTO UPTOWN LOOP ROAD.

**PROPOSED DRAINAGE CONDITIONS**

DEVELOPMENT SHALL BE IN ACCORDANCE WITH EXISTING DRAINAGE PATTERNS. LANDSCAPE AREAS SHALL BE DEPRESSED AND GRADES SHALL BE DESIGNED TO PROVIDE POSITIVE DRAINAGE TOWARD DEPRESSED LANDSCAPE AREAS. STORM WATER DESIGN EVENT SHALL DISCHARGE INTO THE SITE IN ACCORDANCE WITH THE APPROVED DRAINAGE MASTER PLAN.

THE TOTAL SITE AREA IS APPROXIMATELY 2.67 ACRES WITH THE FOLLOWING ESTIMATED LAND TREATMENTS FOR BASIN 100 AND 101:

A: 0% B: 3% C: 6% D: 91%

BASIN 102:  
A: 0% B: 0% C: 75% D: 25%

BASIN 103:  
A: 0% B: 0% C: 0% D: 100%

FIRST FLUSH REQUIRED VOLUMES ARE SHOWN BELOW.

**FLOOD ZONE**

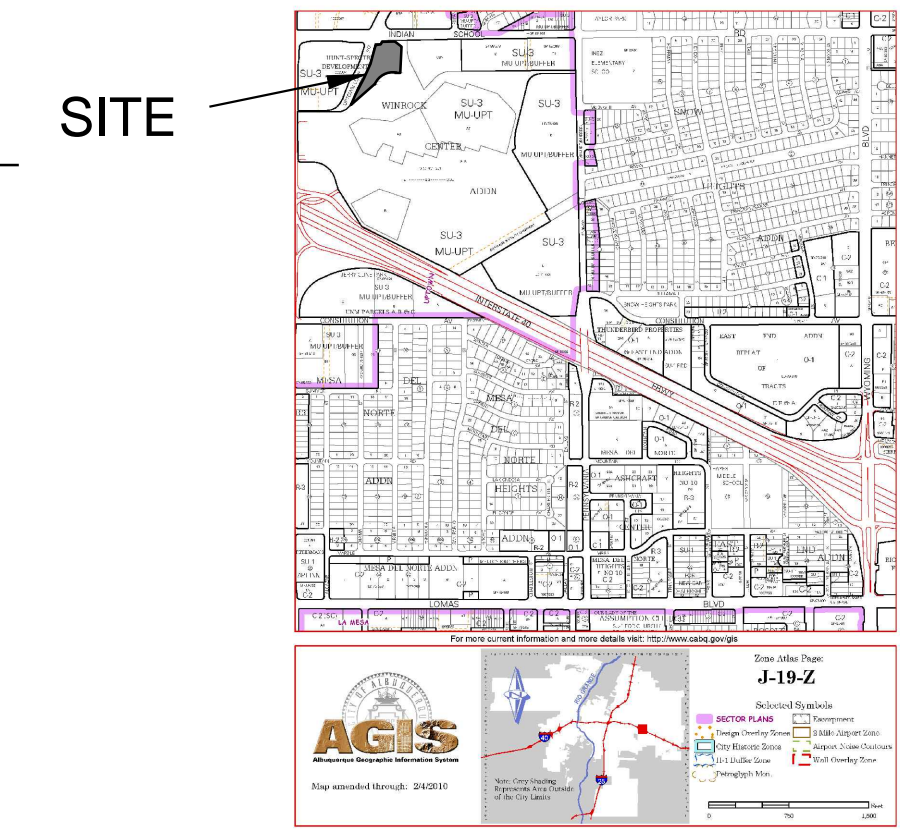
PER THE FEMA MAP NUMBER 35001 C0352G DATED SEPTEMBER 26, 2008 SHOWS THE SITE IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AREA.

**MASTER DRAINAGE PLAN**

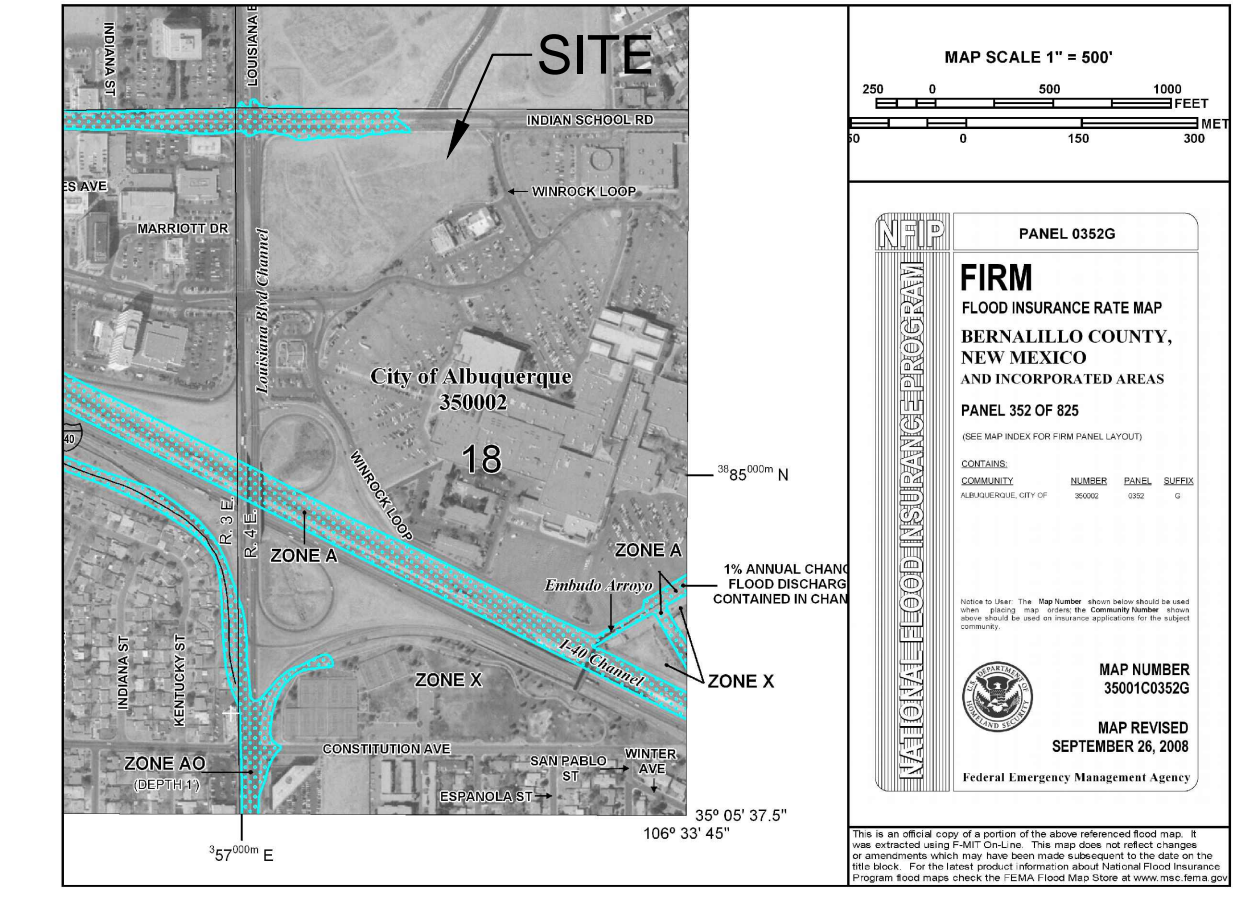
SITE DRAINAGE IS IN ACCORDANCE WITH THE APPROVED WINROCK TOWN CENTER MASTER DRAINAGE PLAN. DRAINAGE FROM THIS PROJECT DISCHARGES INTO BASIN 600 AND 300 OF THE MASTER DRAINAGE BASIN. OUTFALLS INTO INDIAN SCHOOL ROAD ARE REDUCED WITH THE PROJECT.

**PUBLIC / TIDD INFRASTRUCTURE**

THIS PROJECT DOES NOT REQUIRE ANY PORTIONS OF THE PHASED INFRASTRUCTURE. FIRST FLUSH POND 1 SHALL BE RECONFIGURED WITH FUTURE SITE DEVELOPMENT PLANS.



ZONE ATLAS PAGE J-19-Z



**LEGEND**

- PROJECT LIMITS
- BASIN BOUNDARY
- DISCHARGE LOCATION
- FLOW DIRECTION

FIRM PANEL 35001C0352G

<b>AS BUILT INFORMATION</b>		<b>BENCH MARKS</b>		<b>SURVEY INFORMATION</b>		<b>ENGINEER'S SEAL</b>	
CONTRACTOR	DATE	FOUND MONUMENT "20_H18"	DATE	FIELD NOTES			
WORK BY	DATE	STANDARD 3 1/4" ALUMINUM DISC (FOUND IN PLACE)	DATE	NO.			
INSPECTOR'S ACCEPTANCE BY	DATE	NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE-N.A.D. 1983)	DATE	BY			
VERIFICATION BY	DATE	N=1,493,154.978	DATE	NO.	NO.	DATE	REVISIONS
DRAWINGS BY	DATE	E=1,545,048.210	DATE	DESIGNED BY: KS	BY	DATE	DESIGN
MICRO-FILM INFORMATION	DATE	PUBLISHED EL=5293.22 (NAD 1988)	DATE	DRAWN BY: LT	DATE	DATE	
		GROUND TO GRID FACTOR=0.999661680		DWG NAME: C100 DRAINAGE 17JUL17.dwg	PROJECT NO.	PROJECT NO.	
		DELTA ALPHA ANGLE=01100.11"		CHECKED BY: SE	ZONE MAP NO.	ZONE MAP NO.	
				<b>WINROCK TOWN CENTER</b>		<b>PHASE B</b>	
				<b>TITLE: DRAINAGE PLAN</b>			
				Design Review Committee		City Engineer	
				Ms./Day/Yr.		Ms./Day/Yr.	
				Last Update			
				City Project No.		Sheet Of	
				4553.00		J-19-Z C100	



<b>BASIN 100</b>	AREA = 44339 sf AREA = 1.02 ac.
<b>DRAINAGE ZONE 3</b>	
PRECIPITATION:	360 = 2.60 in. 1140 = 3.10 in. 10day = 4.90 in.
<b>EXCESS PRECIPITATION:</b>	<b>PEAK DISCHARGE:</b>
TREATMENT A	0.66 in. 1.87 cfs/ac.
TREATMENT B	0.92 in. 2.60 cfs/ac.
TREATMENT C	1.29 in. 3.45 cfs/ac.
TREATMENT D	2.36 in. 5.02 cfs/ac.
<b>EXISTING CONDITIONS:</b>	<b>PROPOSED CONDITIONS:</b>
TREATMENT A	0.00 ac. 0.00 ac.
TREATMENT B	0.03 ac. 0.03 ac.
TREATMENT C	0.06 ac. 0.06 ac.
TREATMENT D	0.93 ac. 0.93 ac.
<b>EXISTING EXCESS PRECIPITATION:</b>	
Weighted E =	$(0.66 \times 0.00) + (0.92 \times 0.03) + (1.29 \times 0.06) + (2.36 \times 0.93) = 2.25$ in.
V100-360 =	$(2.25 \times 1.02) \times 12 = 0.191074$ ac-ft = 8323 cf
<b>EXISTING PEAK DISCHARGE:</b>	
Q100 =	$(1.87 \times 0.00) + (2.60 \times 0.03) + (3.45 \times 0.06) + (5.02 \times 0.93) = 4.94$ cfs
<b>PROPOSED EXCESS PRECIPITATION:</b>	
Weighted E =	$(0.66 \times 0.00) + (0.92 \times 0.03) + (1.29 \times 0.06) + (2.36 \times 0.93) = 2.25$ in.
V100-360 =	$(2.25 \times 1.02) \times 12.0 = 0.191074$ ac-ft = 8323 cf
V100-1440 =	$(0.19) + (0.93 \times 3.10 - 2.60) \times 12 = 0.229668$ ac-ft = 10004 cf
V100-10day =	$(0.19) + (0.93 \times 4.90 - 2.60) \times 12 = 0.368610$ ac-ft = 16057 cf
<b>PROPOSED PEAK DISCHARGE:</b>	
Q100 =	$(1.87 \times 0.00) + (2.60 \times 0.03) + (3.45 \times 0.06) + (5.02 \times 0.93) = 4.94$ cfs

**BASIN 100 - 44,339 SF**  
**ZONE 3**  
**Q<sub>100, DEV</sub> = 4.9 CFS**  
**V<sub>100-6HR, DEV</sub> = 8,323 CF**

<b>BASIN 101</b>	AREA = 22152 sf AREA = 0.51 ac.
<b>DRAINAGE ZONE 3</b>	
PRECIPITATION:	360 = 2.60 in. 1140 = 3.10 in. 10day = 4.90 in.
<b>EXCESS PRECIPITATION:</b>	<b>PEAK DISCHARGE:</b>
TREATMENT A	0.66 in. 1.87 cfs/ac.
TREATMENT B	0.92 in. 2.60 cfs/ac.
TREATMENT C	1.29 in. 3.45 cfs/ac.
TREATMENT D	2.36 in. 5.02 cfs/ac.
<b>EXISTING CONDITIONS:</b>	<b>PROPOSED CONDITIONS:</b>
TREATMENT A	0.00 ac. 0.00 ac.
TREATMENT B	0.02 ac. 0.02 ac.
TREATMENT C	0.03 ac. 0.03 ac.
TREATMENT D	0.46 ac. 0.46 ac.
<b>EXISTING EXCESS PRECIPITATION:</b>	
Weighted E =	$(0.66 \times 0.00) + (0.92 \times 0.02) + (1.29 \times 0.03) + (2.36 \times 0.46) = 1.59$ in.
V100-360 =	$(1.59 \times 0.51) \times 12 = 0.095461$ ac-ft = 4158 cf
<b>EXISTING PEAK DISCHARGE:</b>	
Q100 =	$(1.87 \times 0.00) + (2.60 \times 0.02) + (3.45 \times 0.03) + (5.02 \times 0.46) = 2.47$ cfs
<b>PROPOSED EXCESS PRECIPITATION:</b>	
Weighted E =	$(0.66 \times 0.00) + (0.92 \times 0.02) + (1.29 \times 0.03) + (2.36 \times 0.46) = 1.59$ in.
V100-360 =	$(2.25 \times 0.51) \times 12.0 = 0.095461$ ac-ft = 4158 cf
V100-1440 =	$(0.10) + (0.46 \times 3.10 - 2.60) \times 12 = 0.114744$ ac-ft = 4998 cf
V100-10day =	$(0.10) + (0.46 \times 4.90 - 2.60) \times 12 = 0.184159$ ac-ft = 8022 cf
<b>PROPOSED PEAK DISCHARGE:</b>	
Q100 =	$(1.87 \times 0.00) + (2.60 \times 0.02) + (3.45 \times 0.03) + (5.02 \times 0.46) = 2.47$ cfs

**BASIN 101 - 22,152 SF**  
**ZONE 3**  
**Q<sub>100, DEV</sub> = 2.5 CFS**  
**V<sub>100-6HR, DEV</sub> = 4,158 CF**

<b>BASIN 102</b>	AREA = 4639 sf AREA = 0.11 ac.
<b>DRAINAGE ZONE 3</b>	
PRECIPITATION:	360 = 2.60 in. 1140 = 3.10 in. 10day = 4.90 in.
<b>EXCESS PRECIPITATION:</b>	<b>PEAK DISCHARGE:</b>
TREATMENT A	0.66 in. 1.87 cfs/ac.
TREATMENT B	0.92 in. 2.60 cfs/ac.
TREATMENT C	1.29 in. 3.45 cfs/ac.
TREATMENT D	2.36 in. 5.02 cfs/ac.
<b>EXISTING CONDITIONS:</b>	<b>PROPOSED CONDITIONS:</b>
TREATMENT A	0.00 ac. 0.00 ac.
TREATMENT B	0.00 ac. 0.00 ac.
TREATMENT C	0.08 ac. 0.08 ac.
TREATMENT D	0.03 ac. 0.03 ac.
<b>EXISTING EXCESS PRECIPITATION:</b>	
Weighted E =	$(0.66 \times 0.00) + (0.92 \times 0.00) + (1.29 \times 0.08) + (2.36 \times 0.03) = 1.59$ in.
V100-360 =	$(1.59 \times 0.11) \times 12 = 0.014067$ ac-ft = 613 cf
<b>EXISTING PEAK DISCHARGE:</b>	
Q100 =	$(1.87 \times 0.00) + (2.60 \times 0.00) + (3.45 \times 0.08) + (5.02 \times 0.03) = 0.42$ cfs
<b>PROPOSED EXCESS PRECIPITATION:</b>	
Weighted E =	$(0.66 \times 0.00) + (0.92 \times 0.00) + (1.29 \times 0.08) + (2.36 \times 0.03) = 1.59$ in.
V100-360 =	$(1.59 \times 0.11) \times 12.0 = 0.014067$ ac-ft = 613 cf
V100-1440 =	$(0.01) + (0.03 \times 3.10 - 2.60) \times 12 = 0.015177$ ac-ft = 661 cf
V100-10day =	$(0.01) + (0.03 \times 4.90 - 2.60) \times 12 = 0.019170$ ac-ft = 835 cf
<b>PROPOSED PEAK DISCHARGE:</b>	
Q100 =	$(1.87 \times 0.00) + (2.60 \times 0.00) + (3.45 \times 0.08) + (5.02 \times 0.03) = 0.42$ cfs

**BASIN 102 - 4,639 SF**  
**ZONE 3**  
**Q<sub>100, DEV</sub> = 0.4 CFS**  
**V<sub>100-6HR, DEV</sub> = 835 CF**

<b>BASIN 103</b>	AREA = 44924 sf AREA = 1.03 ac.
<b>DRAINAGE ZONE 3</b>	
PRECIPITATION:	360 = 2.60 in. 1140 = 3.10 in. 10day = 4.90 in.
<b>EXCESS PRECIPITATION:</b>	<b>PEAK DISCHARGE:</b>
TREATMENT A	0.66 in. 1.87 cfs/ac.
TREATMENT B	0.92 in. 2.60 cfs/ac.
TREATMENT C	1.29 in. 3.45 cfs/ac.
TREATMENT D	2.36 in. 5.02 cfs/ac.
<b>EXISTING CONDITIONS:</b>	<b>PROPOSED CONDITIONS:</b>
TREATMENT A	0.00 ac. 0.00 ac.
TREATMENT B	0.00 ac. 0.00 ac.
TREATMENT C	0.00 ac. 0.00 ac.
TREATMENT D	1.03 ac. 1.03 ac.
<b>EXISTING EXCESS PRECIPITATION:</b>	
Weighted E =	$(0.66 \times 0.00) + (0.92 \times 0.00) + (1.29 \times 0.00) + (2.36 \times 1.03) = 2.36$ in.
V100-360 =	$(2.36 \times 1.03) \times 12 = 0.202825$ ac-ft = 8835 cf
<b>EXISTING PEAK DISCHARGE:</b>	
Q100 =	$(1.87 \times 0.00) + (2.60 \times 0.00) + (3.45 \times 0.00) + (5.02 \times 1.03) = 5.18$ cfs
<b>PROPOSED EXCESS PRECIPITATION:</b>	
Weighted E =	$(0.66 \times 0.00) + (0.92 \times 0.00) + (1.29 \times 0.00) + (2.36 \times 1.03) = 2.36$ in.
V100-360 =	$(2.36 \times 1.03) \times 12.0 = 0.202825$ ac-ft = 8835 cf
V100-1440 =	$(0.20) + (1.03 \times 3.10 - 2.60) \times 12 = 0.245796$ ac-ft = 10707 cf
V100-10day =	$(0.20) + (1.03 \times 4.90 - 2.60) \times 12 = 0.400493$ ac-ft = 17445 cf
<b>PROPOSED PEAK DISCHARGE:</b>	
Q100 =	$(1.87 \times 0.00) + (2.60 \times 0.00) + (3.45 \times 0.00) + (5.02 \times 1.03) = 5.18$ cfs

**BASIN 103 - 44,924 SF**  
**ZONE 3**  
**Q<sub>100, DEV</sub> = 5.2 CFS**  
**V<sub>100-6HR, DEV</sub> = 8,835 CF**

**Chapter 22 - Drainage, Flood Control and Erosion Control**

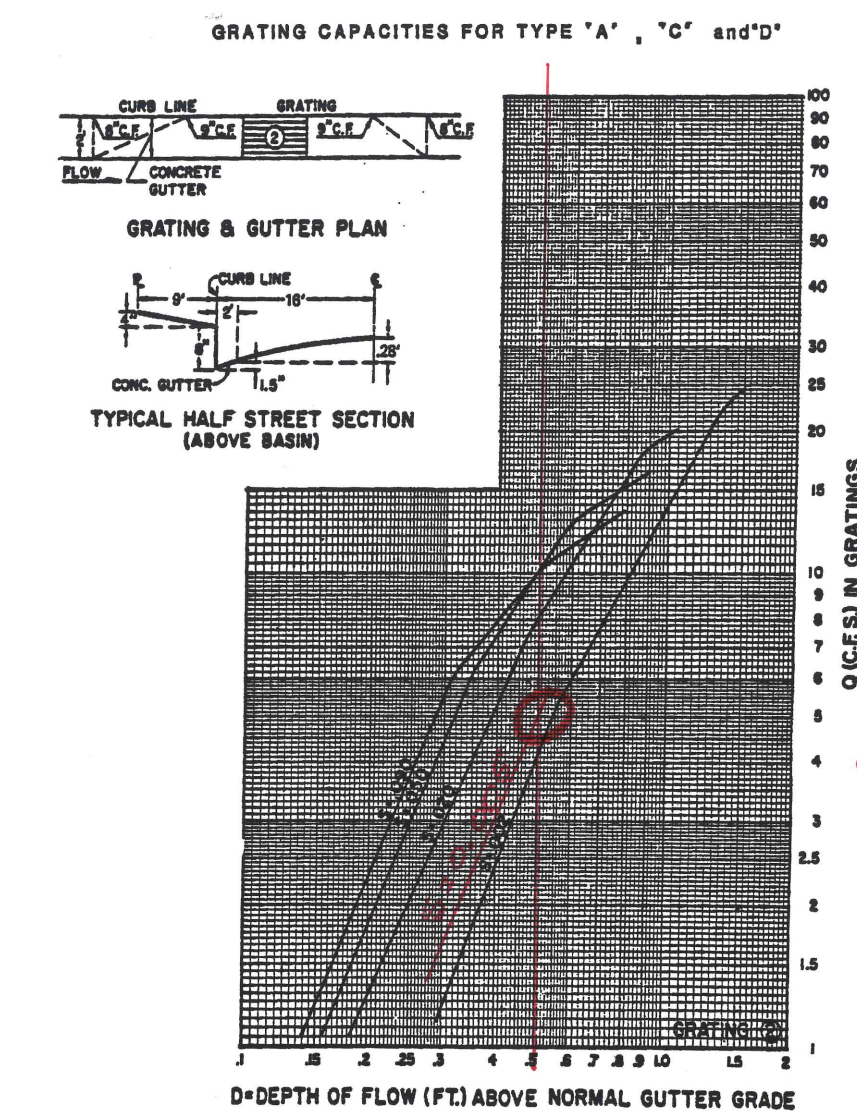


PLATE 22.3 D-5  
May 2001

**TYPE 'D' INLET CAPACITY**  
**ROAD SLOPE = 0.005 ft/ft**  
**Q = 5 cfs**

**BASINS SUMMARY**

BASIN ID	LAND TREATMENT				DISCHARGE RATE	BASIN SIZE
	A	B	C	D		
100	0	3	6	91	4.94 CFS	1.02 AC
101	0	3	6	91	2.47 CFS	0.51 AC
102	0	0	75	25	0.42 CFS	0.11 AC
103	0	0	0	100	5.18 CFS	1.03 AC

<b>AS BUILT INFORMATION</b>		<b>BENCH MARKS</b>		<b>SURVEY INFORMATION</b>		<b>ENGINEER'S SEAL</b>	
CONTRACTOR	DATE	FOUND MONUMENT "20_H18"	DATE	NO.	BY		<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>CHECKED BY: SE</b>
WORK BY	DATE	STANDARD 3 1/4" ALUMINUM DISC (FOUND IN PLACE)	DATE	NO.	BY		
INSPECTOR'S ACCEPTANCE BY	DATE	NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE-N.A.D. 1983)	DATE	NO.	BY	<b>REVISIONS</b> <b>DESIGN</b>	<b>DATE: OCTOBER, 2015</b> <b>DATE: OCTOBER, 2015</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>
PERMITS BY	DATE	N=1,493,154,978	DATE	NO.	BY	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>
VERIFICATION BY	DATE	E=1,545,048,210	DATE	NO.	BY	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>
PERMITS BY	DATE	PUBLISHED EL=5283.22 (NAD 1988)	DATE	NO.	BY	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>
VERIFICATION BY	DATE	GROUND TO GRID FACTOR=0.999661680	DATE	NO.	BY	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>
PERMITS BY	DATE	DELTA ALPHA ANGLE=01100.11"	DATE	NO.	BY	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>
VERIFICATION BY	DATE		DATE	NO.	BY	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>	<b>DESIGNED BY: KS</b> <b>DRAWN BY: LT</b> <b>DWG NAME: C100 DRAINAGE 17JUL17.dwg</b> <b>PROJ #:</b> R303699.01 <b>DATE: JANUARY, 2016</b>

Designed By:  
**HUITT-ZOLIARS**  
 Huitt-Zollars, Inc. Rio Rancho  
 333 Rio Rancho Drive NE, Suite 101  
 Rio Rancho, New Mexico 87124  
 Phone (505) 892-5141 Fax (505) 892-3259

**WINROCK TOWN CENTER**  
**PHASE B**

<b>TITLE: HYDROLOGY</b>			
Design Review Committee	City Engineer	Ms./Day/Yr.	Ms./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
4553.00	J-19-Z	C100A	



ROCK CHANNEL	
<b>Project Description</b>	
Friction Method	Manning Formula
Solve For	Discharge
<b>Input Data</b>	
Roughness Coefficient	0.033
Channel Slope	0.01000 ft/ft
Normal Depth	0.67 ft
Bottom Width	5.50 ft
<b>Results</b>	
Discharge	10.99 ft <sup>3</sup> /s
Flow Area	3.69 ft <sup>2</sup>
Wetted Perimeter	6.84 ft
Hydraulic Radius	0.54 ft
Top Width	5.50 ft
Critical Depth	0.50 ft
Critical Slope	0.02499 ft/ft
Velocity	2.98 ft/s
Velocity Head	0.14 ft
Specific Energy	0.81 ft
Froude Number	0.64
Flow Type	Subcritical
<b>GVF Input Data</b>	
Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0
<b>GVF Output Data</b>	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.67 ft
Critical Depth	0.50 ft
Channel Slope	0.01000 ft/ft
Critical Slope	0.02499 ft/ft

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**ROCK CHANNEL**  
 CAPACITY = 10.99 CFS  
 REQUIRED = 10.1 CFS

STORM DRAIN 2	
<b>Project Description</b>	
Friction Method	Manning Formula
Solve For	Discharge
<b>Input Data</b>	
Roughness Coefficient	0.012
Channel Slope	0.01450 ft/ft
Normal Depth	1.45 ft
Diameter	1.50 ft
<b>Results</b>	
Discharge	14.63 ft <sup>3</sup> /s
Flow Area	1.75 ft <sup>2</sup>
Wetted Perimeter	4.16 ft
Hydraulic Radius	0.42 ft
Top Width	0.54 ft
Critical Depth	1.40 ft
Percent Full	96.7 %
Critical Slope	0.01430 ft/ft
Velocity	8.37 ft/s
Velocity Head	1.09 ft
Specific Energy	2.54 ft
Froude Number	0.82
Maximum Discharge	14.74 ft <sup>3</sup> /s
Discharge Full	13.70 ft <sup>3</sup> /s
Slope Full	0.01654 ft/ft
Flow Type	SubCritical
<b>GVF Input Data</b>	
Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0
<b>GVF Output Data</b>	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.00 ft
Normal Depth Over Rise	96.67 %
Downstream Velocity	Infinity ft/s

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**STORM DRAIN 2**  
 CAPACITY = 14.6 CFS  
 REQUIRED = 5.2 CFS

STORM DRAIN 1	
<b>Project Description</b>	
Friction Method	Manning Formula
Solve For	Discharge
<b>Input Data</b>	
Roughness Coefficient	0.012
Channel Slope	0.02080 ft/ft
Normal Depth	1.45 ft
Diameter	1.50 ft
<b>Results</b>	
Discharge	17.53 ft <sup>3</sup> /s
Flow Area	1.75 ft <sup>2</sup>
Wetted Perimeter	4.16 ft
Hydraulic Radius	0.42 ft
Top Width	0.54 ft
Critical Depth	1.45 ft
Percent Full	96.7 %
Critical Slope	0.02074 ft/ft
Velocity	10.02 ft/s
Velocity Head	1.56 ft
Specific Energy	3.01 ft
Froude Number	0.98
Maximum Discharge	17.65 ft <sup>3</sup> /s
Discharge Full	16.41 ft <sup>3</sup> /s
Slope Full	0.02372 ft/ft
Flow Type	SubCritical
<b>GVF Input Data</b>	
Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0
<b>GVF Output Data</b>	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.00 %
Normal Depth Over Rise	96.67 %
Downstream Velocity	Infinity ft/s

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**STORM DRAIN 1**  
 CAPACITY = 17.5 CFS  
 REQUIRED = 5.2 CFS

STORM DRAIN 3	
<b>Project Description</b>	
Friction Method	Manning Formula
Solve For	Discharge
<b>Input Data</b>	
Roughness Coefficient	0.012
Channel Slope	0.01250 ft/ft
Normal Depth	1.45 ft
Diameter	1.50 ft
<b>Results</b>	
Discharge	13.59 ft <sup>3</sup> /s
Flow Area	1.75 ft <sup>2</sup>
Wetted Perimeter	4.16 ft
Hydraulic Radius	0.42 ft
Top Width	0.54 ft
Critical Depth	1.37 ft
Percent Full	96.7 %
Critical Slope	0.01242 ft/ft
Velocity	7.77 ft/s
Velocity Head	0.94 ft
Specific Energy	2.39 ft
Froude Number	0.76
Maximum Discharge	13.69 ft <sup>3</sup> /s
Discharge Full	12.72 ft <sup>3</sup> /s
Slope Full	0.01426 ft/ft
Flow Type	SubCritical
<b>GVF Input Data</b>	
Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0
<b>GVF Output Data</b>	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.00 %
Normal Depth Over Rise	96.67 %
Downstream Velocity	Infinity ft/s

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**STORM DRAIN 3**  
 CAPACITY = 13.7 CFS  
 REQUIRED = 10.1 CFS

**HYRDAULIC SUMMARY**

INFRASTRUCTURE	SIZE	SLOPE (FT/FT)	CAPACITY RATE	REQUIRED RATE
CONCRETE CHANNEL	3' X 8"	0.006	10.7 CFS	10.1 CFS
STORM DRAIN 1	18"	0.0208	17.5 CFS	5.2 CFS
STORM DRAIN 2	18"	0.0145	14.6 CFS	5.2 CFS
STORM DRAIN 3	18"	0.0125	13.7 CFS	10.1 CFS

<b>AS BUILT INFORMATION</b>		<b>BENCH MARKS</b>		<b>SURVEY INFORMATION</b>		<b>ENGINEER'S SEAL</b>	
CONTRACTOR	DATE	FOUND MONUMENT "20_H18"	DATE	FIELD NOTES	NO.	BY	DATE
WORK BY	DATE	STANDARD 3 1/4" ALUMINUM DISC (FOUND IN PLACE)	DATE				
INSPECTOR'S	DATE	NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE-N.A.D. 1983)					
ACCEPTANCE BY	DATE	N=1,493,154.978					
VERIFICATION BY	DATE	E=1,545,048.210					
DRAWINGS	DATE	PUBLISHED EL=5283.22 (NAD 1988)					
BY	DATE	GROUND TO GRID FACTOR=0.999661680					
<b>MICRO-FILM INFORMATION</b>		DELTA ALPHA ANGLE=01100.11"					
RECORDED BY	DATE						
NO.							

DESIGNED BY: KS	DATE: OCTOBER, 2015
DRAWN BY: LT	DATE: OCTOBER, 2015
DWG NAME: C100 DRAINAGE 17JUL17.dwg	PROJ #: R303699.01
CHECKED BY: SE	DATE: JANUARY, 2016

Designed By:  
**HUITT-ZOLIARS**  
 Huitt-Zollars, Inc. Rio Rancho  
 333 Rio Rancho Drive NE, Suite 101  
 Rio Rancho, New Mexico 87124  
 Phone (505) 892-5141 Fax (505) 892-3259

**WINROCK TOWN CENTER  
 PHASE B**

TITLE: **HYDROLOGY**

Design Review Committee	City Engineer	Ms./Day/Yr.	Ms./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
4553.00	J-19-Z	C100B	

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 User: Scott, Eddings



**KEYED NOTES**

- EXISTING STORM DRAIN TO BE ABANDONED IN PLACE OR REMOVED.
- EXISTING INLET.
- 2 PROPOSED STORM INLETS TO BE BUILT WITH DEVELOPMENT IN BASIN 510. CONNECT TO EXISTING 36" SD THAT DISCHARGES AT AP-A.
- POSSIBLE LOCATION FOR STORM DRAIN TO PICK UP FLOWS WITHIN THIS BASIN. FINAL CONFIGURATION AND SIZING TO BE DETERMINED BY GRADING & DRAINAGE PLAN FOR INDIVIDUAL SITE.
- POSSIBLE LOCATIONS FOR ROOF DRAIN CONNECTIONS TO WATER FEATURE.
- STORM DRAIN LOCATIONS FOR "SECTION 2". SEE INDIVIDUAL GRADING & DRAINAGE PLAN FOR SIZES AND INLET TYPES.

**LEGEND**

- EXISTING STORM DRAIN LINE
- 30" SD NEW STORM DRAIN LINE
- NEW MANHOLE
- NEW ROOF DRAIN
- BASIN LINE
- BASIN ID
- ROOFTOP BASIN HATCH
- ANALYSIS POINT ID

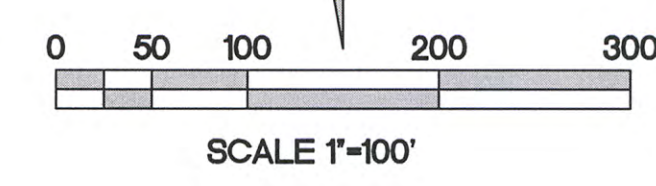
**ISAACSON & ARFMAN, P.A.**  
 Consulting Engineering Associates  
 128 Monroe Street N.E.  
 Albuquerque, New Mexico 87108  
 Ph. 505-268-8828 www.isaacson.com

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**WINROCK TOWN CENTER**  
 (I-25 & LOUISIANA BLVD. NE)  
 GOODMAN REALTY GROUP

**BASIN MAP**

Date:	No.:	Revision:	Date:	Job No.:
Drawn By:				C-701
Chk By:				SH. OF



**PHASE B**

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C101



SITE PLAN AMENDMENT FOR SUBDIVISION PURPOSES  
PHASE A

WINROCK CENTER  
ADDITION

TO AMEND OVERALL SITE CIRCULATION  
WINROCK CENTER ADDITION  
SECTION 18, T. 10N., R. 4E., N.M.P.M.  
CITY OF ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO  
NOVEMBER, 2015 - AMENDED PER DRB

SITE PLAN FOR SUBDIVISION - REQUIRED INFORMATION

THIS SITE DEVELOPMENT PLAN FOR SUBDIVISION AMENDS THE PRIOR APPROVED WINROCK MARKET CENTER SITE DEVELOPMENT PLAN FOR SUBDIVISION 05EPC00876, PROJECT NO. 1002202 AND FOLLOWS THE ADMINISTRATIVE AMENDMENT APPROVED AUGUST 2, 2012 (FILE: 12-10079), AND SITE DEVELOPMENT PLAN AMENDMENT APPROVED BY DRB OCTOBER 9, 2013 (FILE: 13-10671).

THE SITE:  
THE SITE CONSISTS OF APPROXIMATELY 83 ACRES. THE INTERIOR PARCEL LINES SHOWN ON SHEET SP5D-2 ARE ILLUSTRATIVE. FINAL PLATTING WILL OCCUR AS SPECIFIC DEVELOPMENT PROJECTS ARE PROPOSED. THE SUBJECT PROPERTY IS PROPOSED TO BE SUBDIVIDED INTO EIGHTEEN SEPARATE PARCELS.

PROPOSED USE:  
THE SITE IS ZONED SU-3 (MU-UPT AND MU-UPT BUFFER) AS FOLLOWS:

PROPOSED FUTURE PARCELS	PROPOSED FUTURE PARCELS	PROPOSED FUTURE PARCELS
PARCEL 1: 2.24 AC.	PARCEL 7: 4.01 AC.	PARCEL 13: 3.44 AC.
PARCEL 2: 1.66 AC.	PARCEL 8: 4.00 AC.	PARCEL 14: 1.17 AC.
PARCEL 3: 3.03 AC.	PARCEL 9: 3.19 AC.	PARCEL 15: 5.03 AC.
PARCEL 4: 6.31 AC.	PARCEL 10: 3.15 AC.	PARCEL 16: 3.41 AC.
PARCEL 5: 3.26 AC.	PARCEL 11: 2.81 AC.	PARCEL 17: 5.57 AC.
PARCEL 6: 1.26 AC.	PARCEL 12: 2.70 AC.	PARCEL 18: 4.47 AC.

THE BALANCE OF THE PROPERTY IS WITHIN PROPOSED RIGHT-OF-WAY AND SHALL BE DEDICATED TO THE CITY OF ALBUQUERQUE.

PROPOSED USE:  
THE SITE IS ZONED SU-3 (MU-UPT AND MU-UPT BUFFER) LAND USES ARE AS FOLLOWS:

RETAIL/RESTAURANT/THEATER 415,492 S.F. \*USES AND SQUARE FOOTAGES ARE APPROVED  
\*OFFICE 24,000 S.F. PER PREVIOUS SITE DEVELOPMENT PLAN FOR SUBDIVISION.  
\*HOTEL: 174 ROOMS  
\*MULTI-FAMILY 66 UNITS (AREA - 3.11 AC. GROSS DENSITY-21.11 DU/AC.)

PEDESTRIAN AND VEHICULAR INGRESS AND EGRESS:  
VEHICULAR ACCESS:  
LOUISIANA BOULEVARD PROVIDES THE MAJOR SIGNALIZED ACCESS INTO WINROCK TOWN CENTER VIA UPTOWN LOOP. ADDITIONAL ACCESS POINTS ARE PROVIDED AT LOUISIANA BOULEVARD, INDIAN SCHOOL ROAD, AND PENNSYLVANIA STREET. THERE IS DIRECT ACCESS FROM WINROCK TOWN CENTER TO I-40 WEST. THESE ACCESS POINTS ARE CONSISTENT WITH THE UPTOWN SECTOR DEVELOPMENT PLAN AND PREVIOUS APPROVALS FOR WINROCK.

BICYCLE AND TRAIL ACCESS:  
BICYCLE ACCESS IS PROVIDED BY 6 FOOT ON-STREET BIKE LANES IN LOUISIANA BOULEVARD, PENNSYLVANIA STREET, AND INDIAN SCHOOL ROAD. TRAIL ACCESS IS PROVIDED ACROSS PENNSYLVANIA VIA THE PASEO DE LAS MONTANAS TRAIL, CONTINUES ALONG WINROCK'S SOUTHERN EDGE, CONNECTS TO THE PEDESTRIAN OVERPASS AND CONTINUES ACROSS I-40. SIDEWALKS WILL PROVIDE PEDESTRIAN CONNECTIVITY WITHIN WINROCK TOWN CENTER CONSISTENT WITH THE REQUIREMENTS OF THE UPTOWN SECTOR DEVELOPMENT PLAN.

TRANSIT ACCESS:  
LOUISIANA BOULEVARD IS DESIGNATED A MAJOR TRANSIT CORRIDOR, WITH A REGULAR BUS ROUTE AND A RAPID RIDE ROUTE AND INDIAN SCHOOL ROAD INCLUDES A COMMUTER ROUTE. THE UPTOWN TRANSIT CENTER IS LOCATED NEARBY OFF INDIAN SCHOOL ROAD, WEST OF LOUISIANA BOULEVARD. A TRANSIT FACILITY IS PROVIDED AT THE SOUTHWEST CORNER OF WINROCK TOWN CENTER, WITH 18 PARKING SPACES PROVIDED.

INTERNAL CIRCULATION REQUIREMENTS:  
INTERNAL CIRCULATION IS PROVIDED THROUGH THE SITE VIA A RING ROAD SYSTEM. SIDEWALKS SHALL BE DEVELOPED CONSISTENT WITH THE REQUIREMENTS OF THE UPTOWN SECTOR DEVELOPMENT PLAN.

BUILDING HEIGHTS AND SETBACKS:  
BUILDING HEIGHTS AND SETBACKS SHALL BE CONSISTENT WITH THE REQUIREMENTS IN THE UPTOWN SECTOR DEVELOPMENT PLAN AND THE CITY COMPREHENSIVE ZONING CODE.

FAR:  
THE MINIMUM FLOOR AREA RATIO (FAR) IS .30 FOR WINROCK TOWN CENTER AS REQUIRED BY THE UPTOWN SECTOR DEVELOPMENT PLAN.

SU-3 AREA	BUILDING	FAR
3,619,680 S.F. (83.10 AC.)	1,106,808 S.F.	.31

OWNER/DEVELOPER  
WINROCK PARTNERS, LLC.



Designed By:  
**HUITT-ZOLLARS**  
Huitt-Zollars, Inc.  
Rio Rancho  
333 Rio Rancho Drive NE, Suite 101  
Rio Rancho, New Mexico 87124  
Phone (505) 892-5141 Fax (505) 892-3259

WINROCK TOWN CENTER

TITLE:  
SITE PLAN FOR SUBDIVISION

Design Review Committee	City Engineer	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
4553.00	J-19-Z		SPSD-1

PROJECT NUMBER: 1002202  
APPLICATION NUMBER: 15DRB-10202

IS AN INFRASTRUCTURE LIST REQUIRED? (X) YES ( ) NO IF YES, THEN A SET OF APPROVED DRG PLANS WITH A WORK ORDER IS REQUIRED FOR ANY CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY OR FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS.

DRB SITE DEVELOPMENT PLAN APPROVAL:  
*Rafael M. Nunez* 11/18/15  
DATE

ABCMA  
*Carels Dumont* 11-18-15  
DATE  
PARKS AND RECREATION DEPARTMENT  
*Rita J. H* 11-18-15  
DATE  
CITY ENGINEER

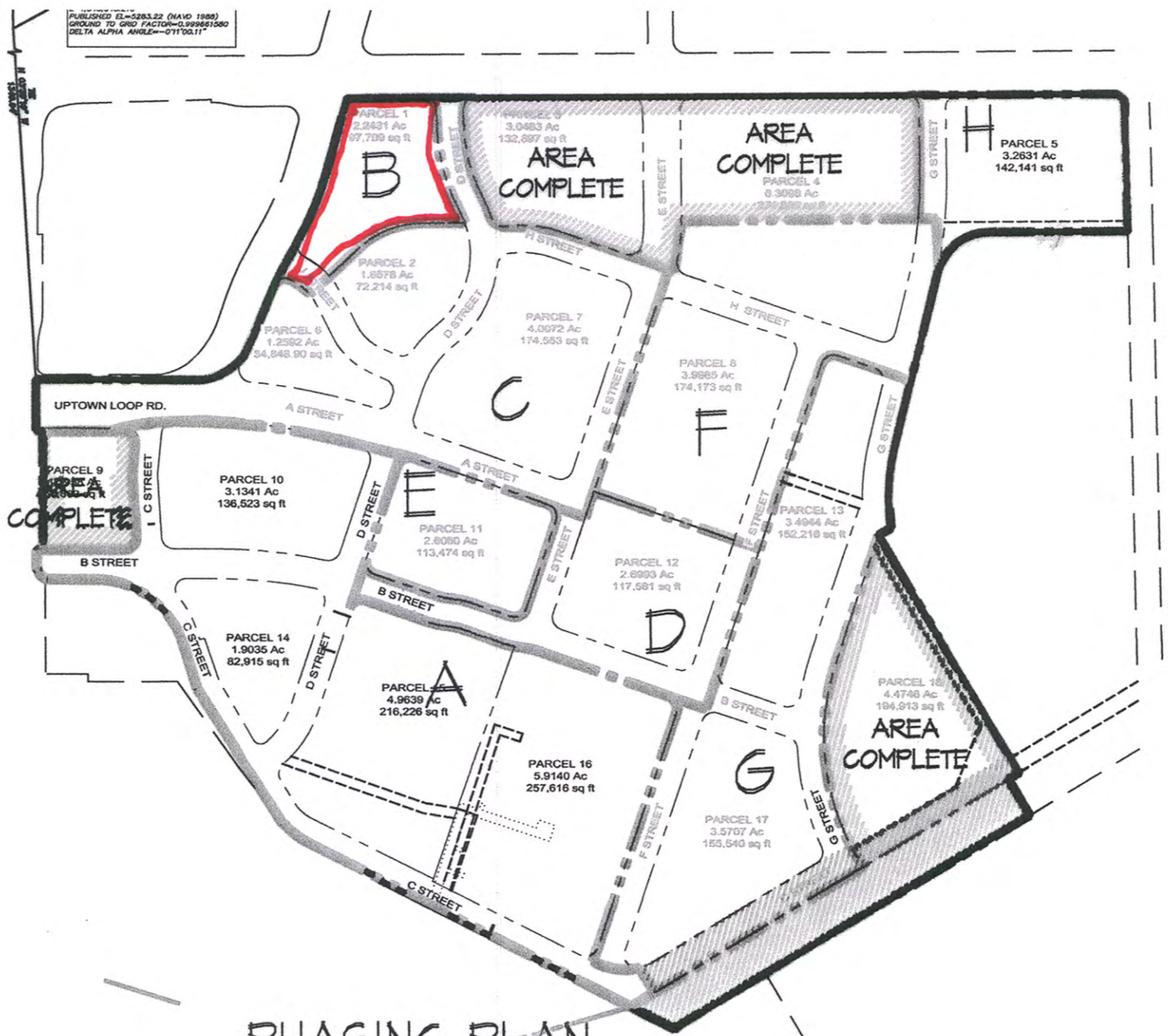
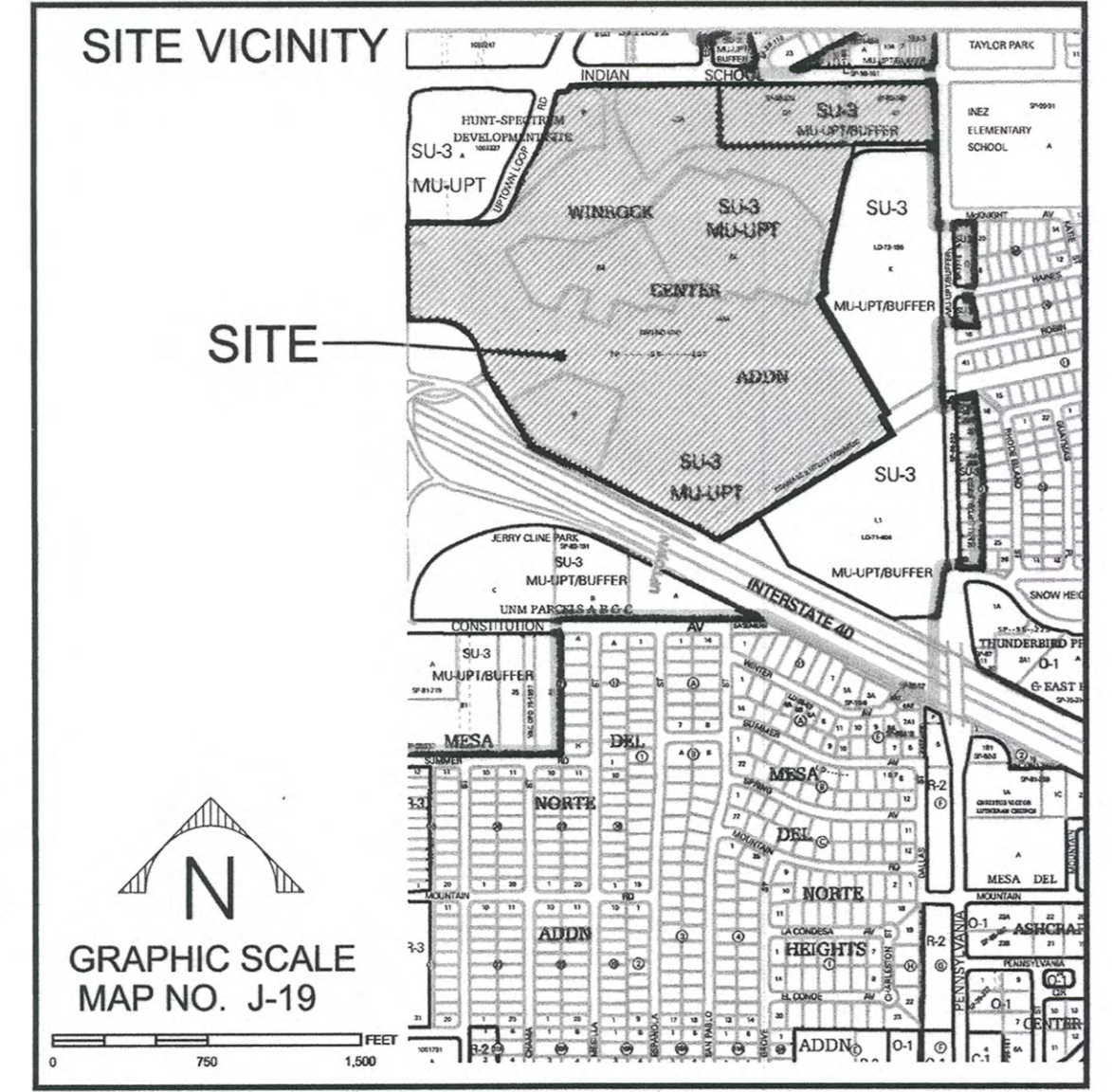
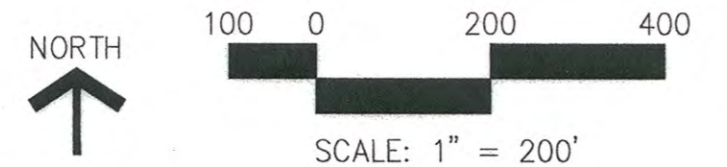
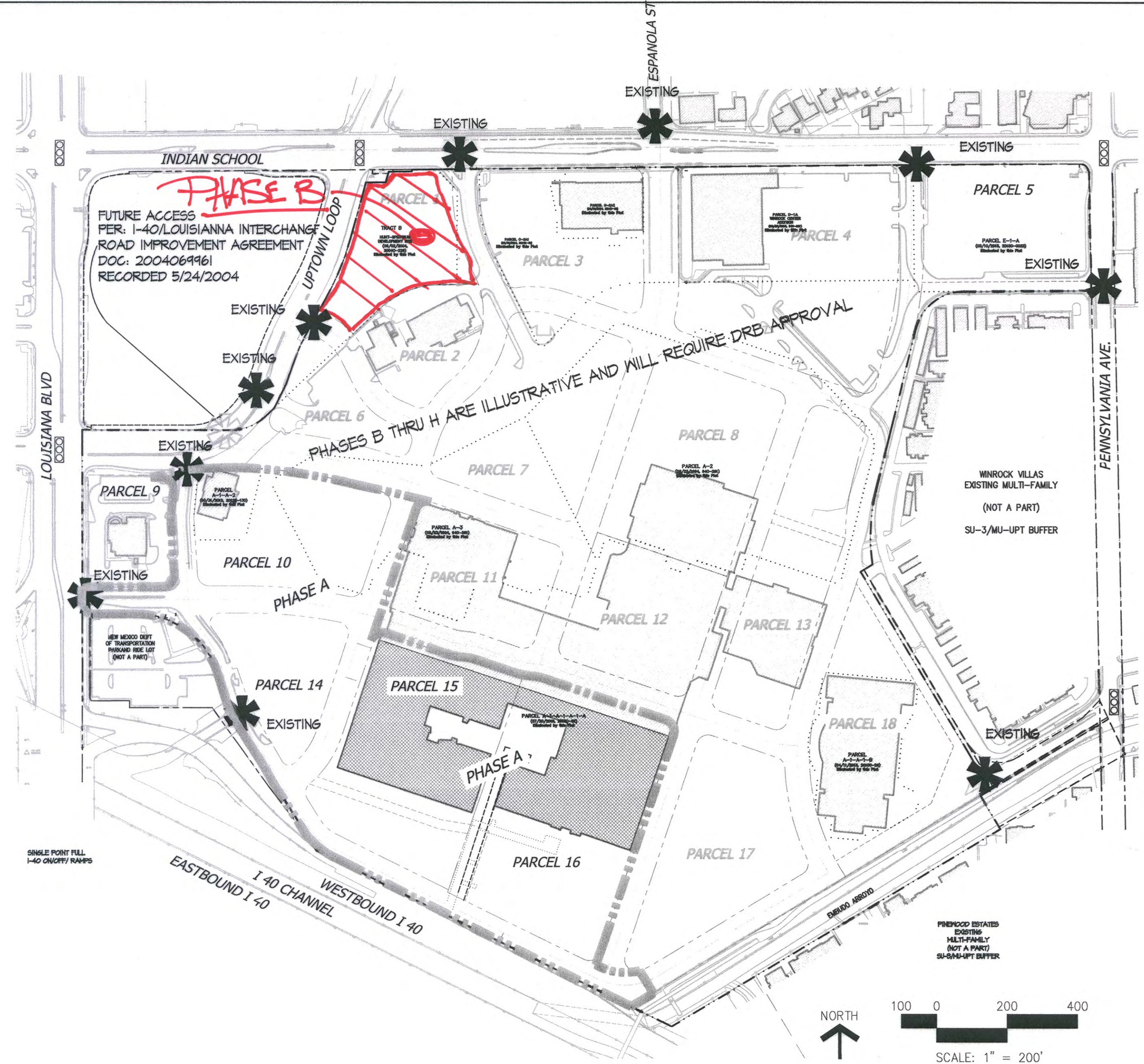
ENVIRONMENTAL HEALTH DEPARTMENT (CONDITIONAL) DATE

SOLID WASTE MANAGEMENT DATE

DRB CHAIRPERSON, PLANNING DEPARTMENT DATE

REVISION HISTORY: SITE PLAN FOR SUBDIVISION PURPOSES AND SUBDIVISIONS, CASE 1002202.

8.	MARCH 10, 2015	DRB#201500023 REPLAT PARCEL A-1-A-1-A AND E-1 INTO A-1-A-1-A-1 AND E-1-A
7.	APRIL 23, 2014	DRB #201500082 REPLAT PARCEL C-2A INTO C-2A1 AND C-2A2.
6.	OCTOBER 9, 2013	DRB #13-10670 AND DRB #13-10671 TO AMEND DEVELOPMENT OF TRACT C-2A. PHASING KEY MAP REVISED TO REFLECT DRB#13-10484.
5.	MAR. 27, 2013	DRB #13-10488 AND 10489 DIVIDING TRACT A-1-A-1 TO CREATE TRACT A-1-A-1-B AND RENAMING BALANCE AS A-1-A-1-A. PHASING KEY MAP REVISED TO REFLECT 0-2-12 ADMIN. AMENDMENT.
4.	FEB. 25, 2013	ADMIN. AMENDMENT 13-10174 REVISING DRIVE AISLE AND LANDSCAPING FOR THEATER (NO SUBDIVISION EFFECT)
3.	SEPT. 26, 2012	EXISTING TRACT A-1-A DIVIDED INTO A-1-A-1 AND A-1-A-2 TO PROVIDE FOR B.J.S RESTAURANT (SHOWN PREVIOUSLY AS PHASE 2).
2.	AUG. 2, 2012	ADMINISTRATIVE AMENDMENT APPROVED REVISING BUILDING LOCATION FOR CINEMA AND REVISING PHASING LOCATIONS.
1.	MAY 9, 2012	SITE PLAN APPLICATION NO. 12-10106. PROPOSES TO CREATE 6 NEW LOTS AND DESCRIBES THEN-CURRENT PHASING.



PHASING PLAN  
PHASES B THRU H ARE ILLUSTRATIVE AND WILL REQUIRE DRB APPROVAL

- LEGEND
- EXISTING BUILDING
  - BUILDING UNDER CONSTRUCTION
  - PHASE A

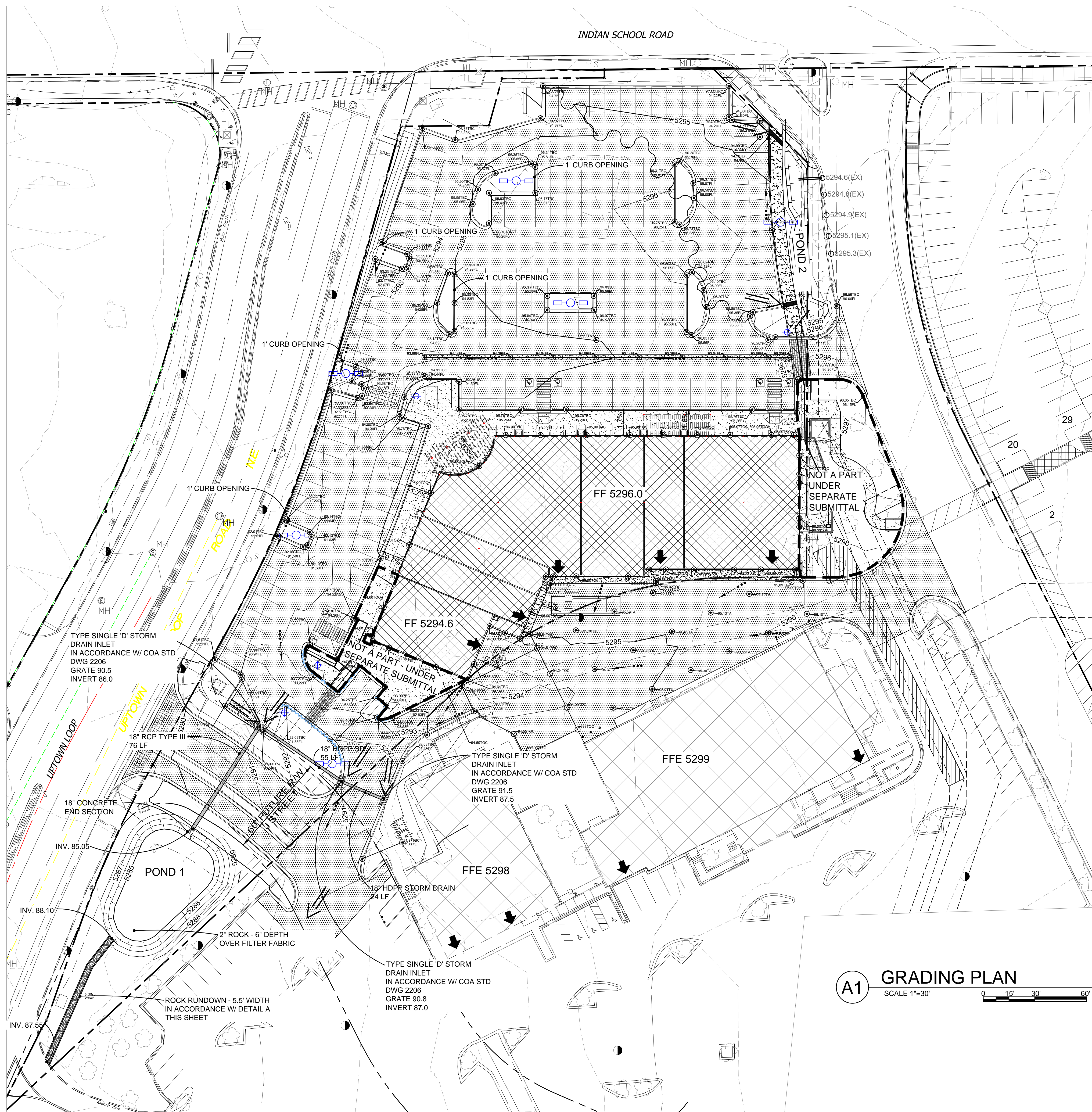
- APPROVED ACCESS POINTS PER PREVIOUS SITE DEVELOPMENT PLAN FOR SUBDIVISION. ACCESS POINTS TO BE DEVELOPED IN CONJUNCTION WITH FUTURE PHASES.
- GENERAL NOTES:
- LOT LINES ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL PLATTING FOR THE WINROCK TOWN CENTER SHALL OCCUR AT THE END OF SITE AND BUILDING CONSTRUCTION WITH INDIVIDUAL LOT BOUNDARIES FOR THE SU-3 AREAS AS AGREED TO WITH THE PLANNING DIRECTOR.
  - PHASING AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE UPTOWN SECTOR DEVELOPMENT PLAN.
  - FUTURE APPROVALS FOR SPECIFIC DEVELOPMENT PROJECTS SHALL BE IN COMPLIANCE WITH THE UPTOWN SECTOR DEVELOPMENT PLAN AND THIS SITE DEVELOPMENT PLAN FOR SUBDIVISION.
  - PARKING AS SHOWN IS ILLUSTRATIVE AND SUBJECT TO COMPLIANCE WITH THE UPTOWN SECTOR DEVELOPMENT PLAN. A SHARED PARKING AGREEMENT WILL BE REQUIRED FOR THE SITE TENANTS.
  - WINROCK MANAGEMENT SHALL PROVIDE SUFFICIENT ON-SITE SECURITY.
  - SUFFICIENT WAYFINDING SIGNAGE AND RING ROAD STRIPING SHALL BE PROVIDED TO DIRECT USERS TO TENANT LOCATIONS AS WELL AS TO PROJECT EXITS.

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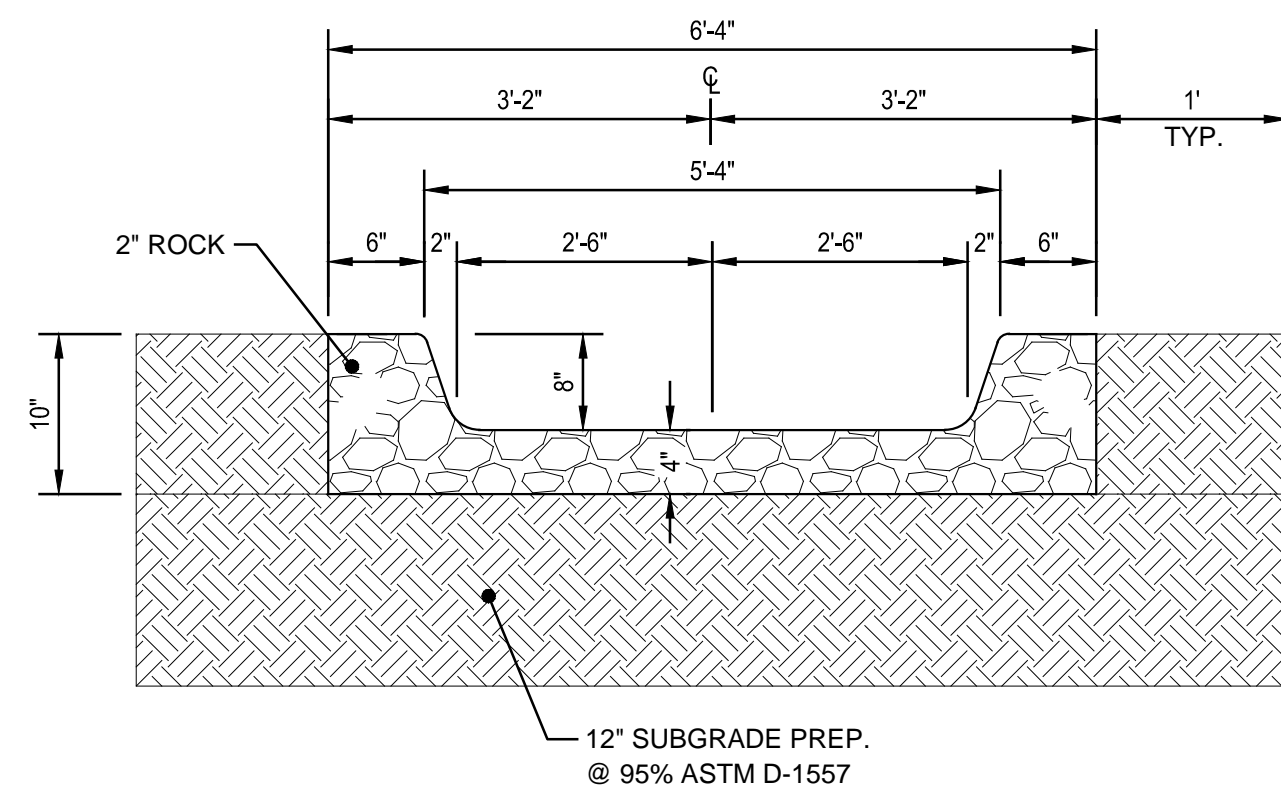
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 User: Scott.Eddings



- BUILDING
- CONCRETE
- ASPHALT
- GRADE BREAK
- ROOF DRAIN LOCATION
- DIRECTION OF FLOW
- DISCHARGE LOCATION



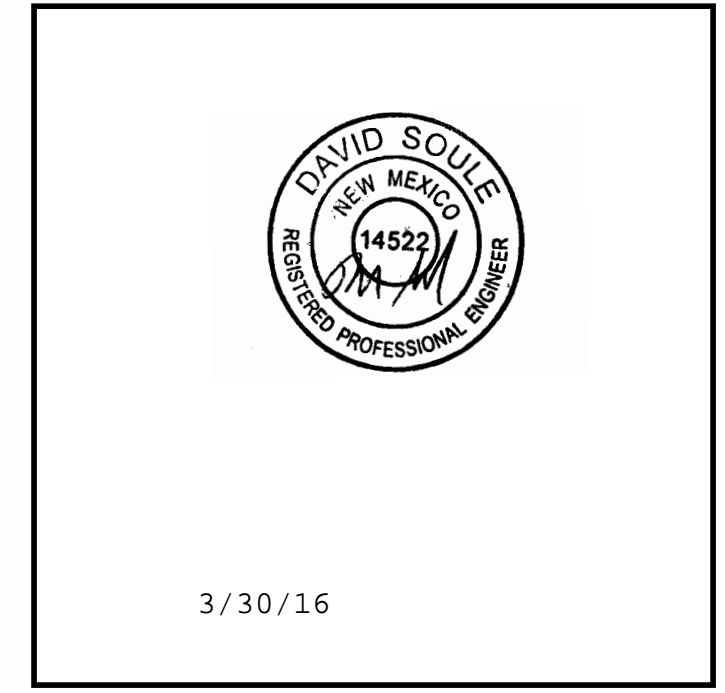
**ROCK RUNDOWN**  
SCALE: N.T.S.

**A1 GRADING PLAN**  
SCALE 1"=30'

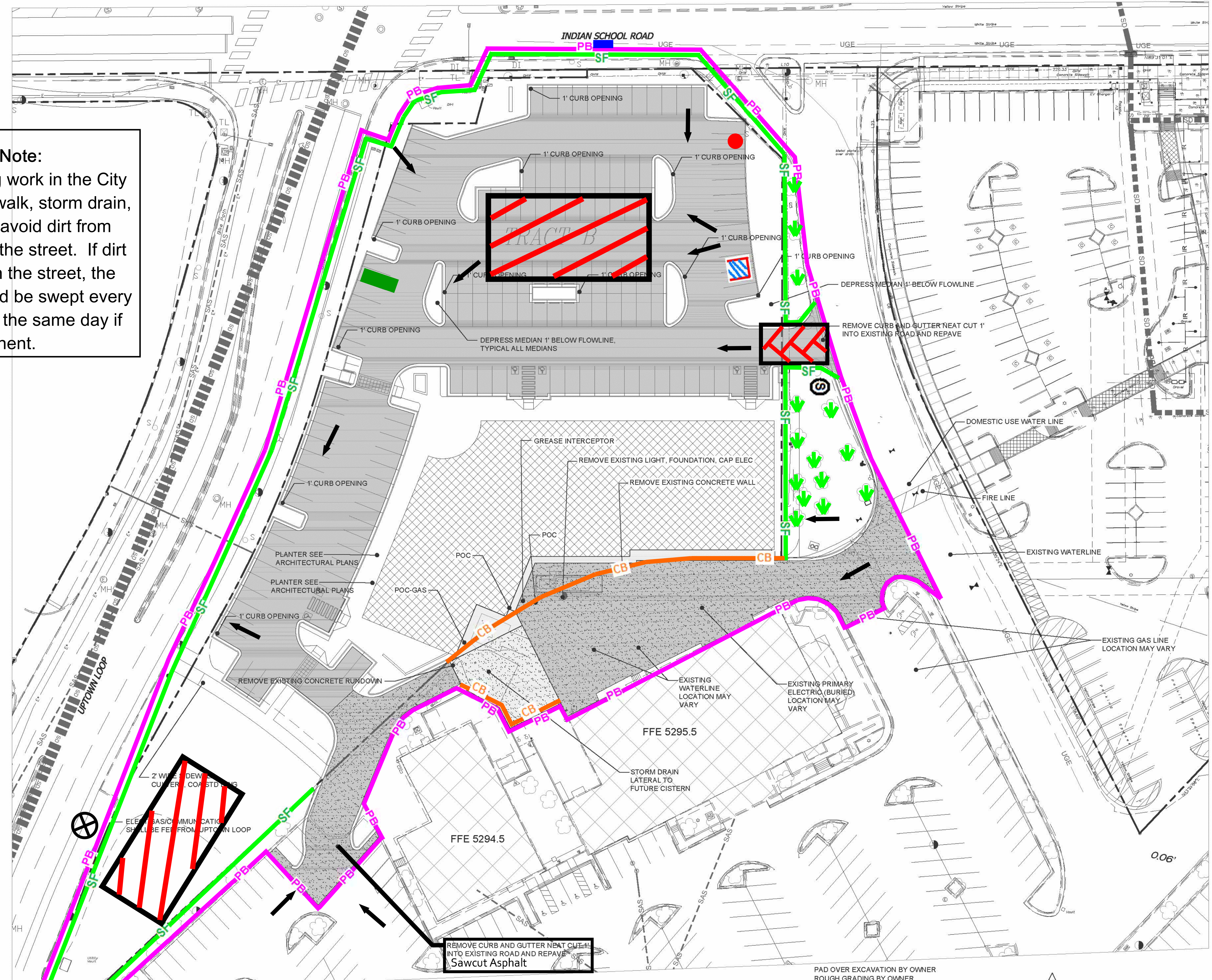
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CONTRACTOR	DATE	FOUND MONUMENT "20_H18"	FIELD NOTES	NO.	BY		
WORK BY	DATE	STANDARD 3 1/4" ALUMINUM DISC (FOUND IN PLACE)					
INSPECTOR'S ACCEPTANCE BY	DATE	NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE-N.A.D. 1983)					
VERIFY BY	DATE	N=1,483,154.978					
DATE		E=1,545,048.210					
MICRO-FILM INFORMATION				DESIGNED BY: KS		DATE: OCTOBER, 2015	
				DRAWN BY: LT		DATE: OCTOBER, 2015	
				DWG NAME: C102 GRADING\17\JUL17.dwg\PROJ.#: R303899.01		CHECKED BY: SE	
				DATE: JANUARY, 2016			
<b>WINROCK TOWN CENTER PHASE B</b>							
<b>GRADING PLAN</b>							
Design Review Committee		City Engineer		Ms./Day/Yr.		Ms./Day/Yr.	
City Project No.		Zone Map No.		Sheet		Of	
4553.00		J-19-Z		C102			



**Engineer Stamp**



**Note:**  
When doing work in the City ROW (sidewalk, storm drain, drive pads) avoid dirt from getting into the street. If dirt is present in the street, the street should be swept every few days or the same day if rain is imminent.



**Legend**

**Erosion Sediment Control Plan**

- PB Project Perimeter & Disturbed Area
- SF Silt Fence
- Pre Flow & Post Flow
- Outfall
- Posting Sign
- ↓ Preserved Vegetation
- Staging Area
- Stabilized Construction Entrance
- Trash Receptacle
- Chemical Toilet
- Concrete Washout
- CB Cut Back at curb / Cut Below Grade

**Section 8**

**Receiving Waters and Critical Habitat:** Rio Grande is located 10.8 miles to the West.

**Impairments:** E. coli, Dissolved Oxygen, PCBs in Fish Tissue, Water Temperature

**Grade:** Before and After 0.5% to 1%