

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

December 1, 2020

Fred C. Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe St. N.E
Albuquerque, NM 87108

**RE: Kidz Academy - Unser and Sage Marketplace
Sage Road SW
Grading and Drainage Plan
Engineer's Stamp Date: 11/13/20
Hydrology File: M10D020**

Dear Mr. Arfman:

Based upon the information provided in your submittal received 11/13/2020, the Grading and Drainage Plan is approved for Building Permit.

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.

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.

The Payment in Lieu payment of **\$8,448.00** must be paid prior to Permanent Release of Occupancy approval. Please use the attached City of Albuquerque Treasury Deposit form. Once the Owner paid the fee, please provide Hydrology with a copy of the receipt.

Also, please provide the Drainage Covenant for the proposed stormwater quality ponds per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. There is a recording fee (\$25, payable to Bernalillo County). Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996). Due to COVID-19, please follow the instructions:

Either email a pdf copy of the executed drainage covenant and the exhibit to clabadie@cabq.gov or either mail or drop off the originals. Please mail the \$25.00 recording fee check made payable to Bernalillo County to:

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

Planning Dept./DRC
Attn: Charlotte LaBadie
600 2nd St. NW, Ste. 400
ABQ, NM, 87102

If you drop off the originals, there is a drop box outside the building labeled DRC. Once approved and recorded, Charlotte will email you a copy.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _____ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

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

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

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

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

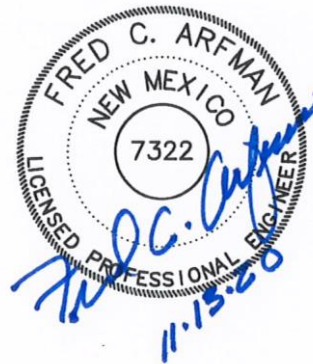
FEE PAID: _____

NOVEMBER 13, 2020

Supplemental Information

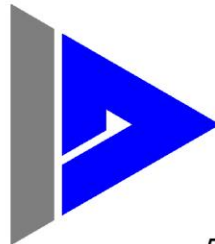
for

Kidz Academy Tract A-4, Sage & Unser Marketplace



by

Isaacson & ^{EST 1980} Arfman, Inc.
Civil Engineering Consultants



128 Monroe Street NE
Albuquerque, NM 87108
505-268-8828 | www.iacivil.com

CALCULATIONS: Tract 4 - Kidz Academy : 22-Oct-2020

Based on City of Albuquerque DMP, Article 6-2 Hydrology dated June 26, 2020

100-YEAR, 6-HOUR CALCULATIONS

AREA OF SITE:	48017	SF	=	1.10	ACRE
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100-year, 6-hour

HISTORIC FLOWS:**DEVELOPED FLOWS:****EXCESS PRECIP:**

	Treatment SF	%		Treatment SF	%	Precip. Zone	1
Area A =	9603	20%	Area A =	0	0%	E _A	= 0.55
Area B =	28810	60%	Area B =	8726	18%	E _B	= 0.73
Area C =	9603	20%	Area C =	0	0%	E _C	= 0.95
Area D =	0	0%	Area D =	39291	82%	E _D	= 2.24
Total Area =	48017	100%	Total Area =	48017	100%		

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

Historic E =	0.74 in.	Developed E =	1.97 in.
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On-Site Volume of Runoff: $V_{360} = E \cdot A / 12$

Historic V_{360} =	2953 CF	Developed V_{360} =	7865 CF
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On-Site Peak Discharge Rate: $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D / 43,560$

For Precipitation Zone 1

Q_{pA} =	1.54	Q_{pC} =	2.87
Q_{pB} =	2.16	Q_{pD} =	4.12

Historic Q_p =	2.4 CFS	Developed Q_p =	4.1 CFS
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An amended Drainage Report (DR) for Unser and Sage Marketplace (previously approved dated October 18, 2020) is included with this submittal. The amended report specifically redistributes the discharge rates to DR Basins 1 and 2 for Tracts A-3 and A-4 while maintaining the total discharge rates as previously approved.

Per the amended report:

Allowable Tract A-4, Maximum discharge = 4.9 cfs

3.2 cfs to DR Basin 1 (Sage Road / Storm Drain)

1.7 cfs to DR Basin 2 (discharging through Tract 1 to the existing Drainage R.O.W.)

Tract A-4 Proposed Drainage Basins:



Tract A4 is limited to 3.2 cfs to the Sage / storm drain system:

Basin B1 to surface discharge to Sage @ 0.1

Basins B2, B3 and B4 to SD @ $1.5+0.2+1.5 = 3.2$ cfs

Total 3.3 cfs. The overage of 0.1 cfs is negligible.

Basins B5 and B6 will drain south @ $0.5+0.3 = 0.8$ cfs (1.7 cfs allowable)

B1	DESCRIPTION		Add description here
ows =	1155	SF	= 0.03 Ac.
Calculations are based on Treatment %'s as shown in table to the right			LAND TREATMENT
Sub-basin Weighted Excess Precipitation:			A = 0%
Weighted E = 2.24 in.			B = 0%
Sub-basin Volume of Runoff:			C = 0%
V ₃₆₀ = 216 CF			D = 100%
Sub-basin Peak Discharge Rate:			Stormwater Quality Volume
Q _P = 0.1 cfs			33 CF
B2	DESCRIPTION		
ows =	16997	SF	= 0.4 Ac.
Calculations are based on Treatment %'s as shown in table to the right			LAND TREATMENT
Sub-basin Weighted Excess Precipitation:			A = 0%
Weighted E = 2.01 in.			B = 15%
Sub-basin Volume of Runoff:			C = 0%
V ₃₆₀ = 2852 CF			D = 85%
Sub-basin Peak Discharge Rate:			FIRST FLUSH VOL.
Q _P = 1.5 cfs			409 CF
B3	DESCRIPTION		
ows =	2253	SF	= 0.1 Ac.
Calculations are based on Treatment %'s as shown in table to the right			LAND TREATMENT
Sub-basin Weighted Excess Precipitation:			A = 0%
Weighted E = 2.24 in.			B = 0%
Sub-basin Volume of Runoff:			C = 0%
V ₃₆₀ = 421 CF			D = 100%
Sub-basin Peak Discharge Rate:			FIRST FLUSH VOL.
Q _P = 0.2 cfs			64 CF
B4	DESCRIPTION		
ows =	16762	SF	= 0.4 Ac.
Calculations are based on Treatment %'s as shown in table to the right			LAND TREATMENT
Sub-basin Weighted Excess Precipitation:			A = 0%
Weighted E = 2.09 in.			B = 10%
Sub-basin Volume of Runoff:			C = 0%
V ₃₆₀ = 2918 CF			D = 90%
Sub-basin Peak Discharge Rate:			FIRST FLUSH VOL.
Q _P = 1.5 cfs			427 CF

B5		DESCRIPTION	
ows =	7939	SF	= 0.2 Ac.
Calculations are based on Treatment %'s as shown in table to the right		LAND TREATMENT	
Sub-basin Weighted Excess Precipitation:		A = 0%	
Weighted E =		B = 60%	
Sub-basin Volume of Runoff:		C = 0%	
V ₃₆₀ =		D = 40%	
Sub-basin Peak Discharge Rate:		FIRST FLUSH VOL.	
Q _P =		90 CF	
B6		DESCRIPTION	
ows =	2910	SF	= 0.1 Ac.
Calculations are based on Treatment %'s as shown in table to the right		LAND TREATMENT	
Sub-basin Weighted Excess Precipitation:		A = 0%	
Weighted E =		B = 0%	
Sub-basin Volume of Runoff:		C = 0%	
V ₃₆₀ =		D = 100%	
Sub-basin Peak Discharge Rate:		FIRST FLUSH VOL.	
Q _P =		82 CF	

DRAINAGE ANALYSIS

The referenced PROPERTY (Tract A-4 of Unser and Sage Marketplace) is an undeveloped commercial property located within City of Albuquerque (C.O.A.) Vicinity Map M-10-Z. The 1.10 acre site is bound to the south and west by undeveloped commercial property, to the east by developed commercial property, and to the north by Sage Road SW.

Proposed improvements include a commercial building with associated site walks, parking and landscaping and playground areas.

The approved Drainage Master Plan (DMP) for Unser and Sage Marketplace, prepared by Isaacson & Arfman (dated 10/18/2010) identified the overall basins, drainage patterns and allowable discharge rates from each of the five tracts.

An amended Drainage Master Plan (DMP) is submitted with this Grading and Drainage Plan to redistribute the allowable discharge from Tract 3 and Tract 4 (same owner):

Original DMP approved discharge rates:

- Tract A-3 1.37 acre @ Maximum Discharge = 5.5 cfs
5.5 cfs to Basin 1 (Sage Road / Storm Drain system)
0.0 cfs to Basin 2 (South to the existing Drainage R.O.W)
- Tract A-41. 10 acre @ Maximum Discharge = 4.4 cfs
2.7 cfs to Basin 1 (Sage Road / Storm Drain system)
1.7 cfs to Basin 2 (South to the existing Drainage R.O.W)

Amended DMP discharge rates:

- Tract A-3 1.37 acre @ Maximum Discharge = 5.3 cfs
5.0 cfs to Basin 1 (Sage Road / Storm Drain system)
0.3 cfs to Basin 2 (South to the existing Drainage R.O.W)
- Tract A-4 1.10 acre @ Maximum Discharge = 4.7 cfs
3.2 cfs to Basin 1 (Sage Road / Storm Drain system)
1.4 cfs to Basin 2 (South to the existing Drainage R.O.W)

- Total Tract 3 + Tract 4 discharge to Basin 1
= 5.0 cfs (Tract 3) + 3.2 cfs (Tract 4) = 8.2 cfs (no change to DMP total)
- Total Tract 3 + Tract 4 discharge to Basin 2
= 0.3 cfs (Tract 3) + 1.4 cfs (Tract 4) = 1.7 cfs (no change to DMP total)

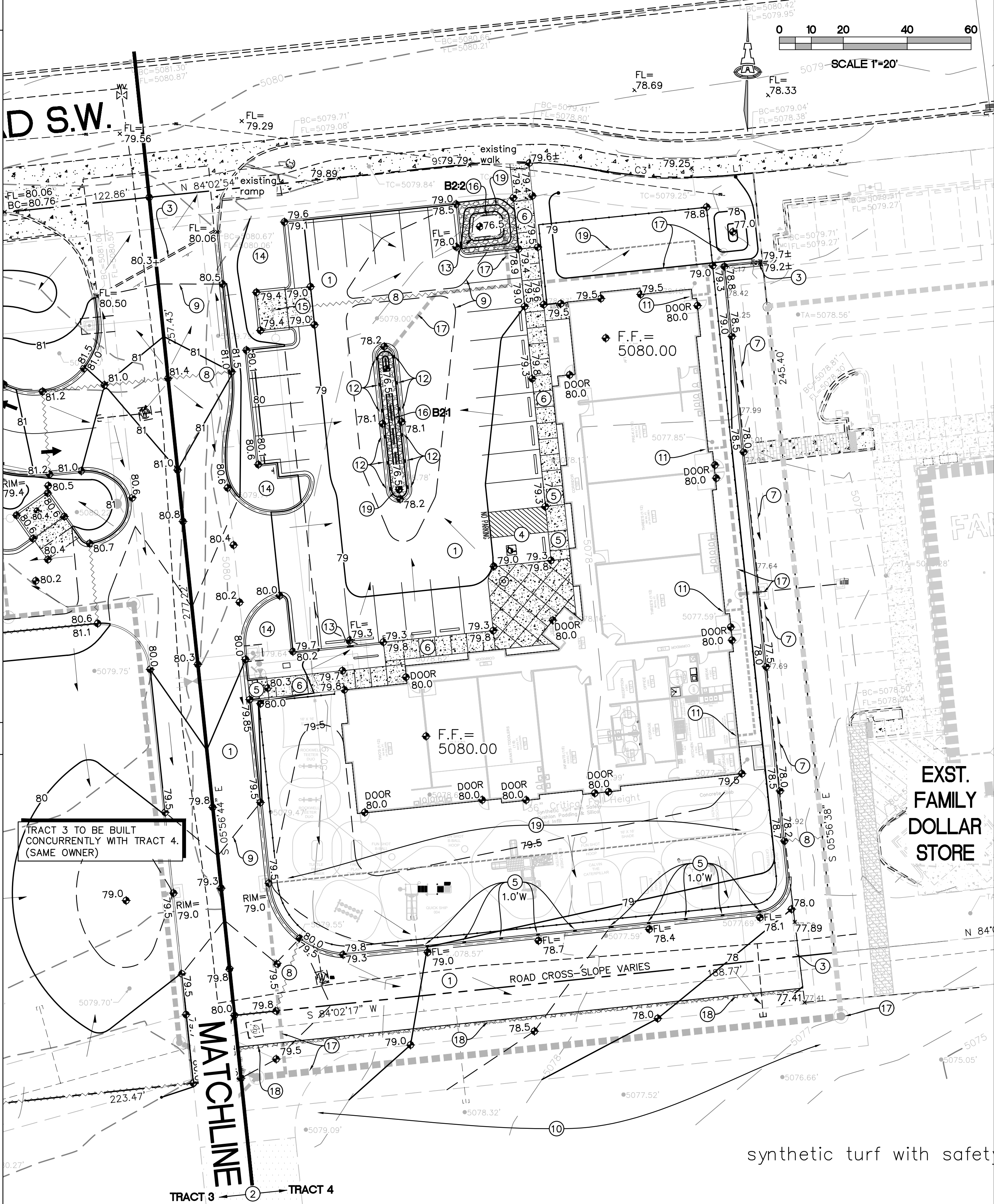
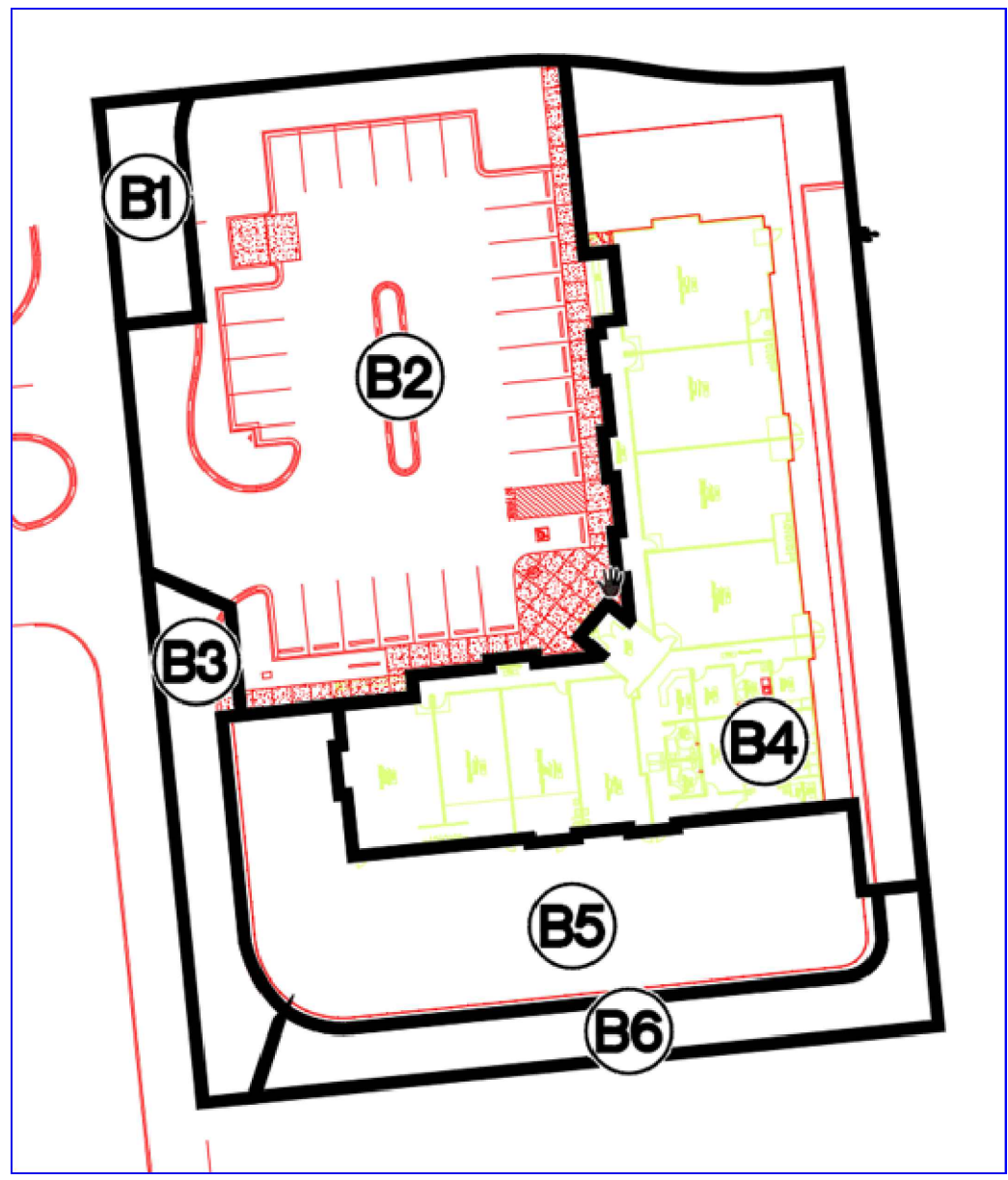
DRAINAGE BASINS

SEE SUPPLEMENTAL INFORMATION PACKET FOR ADDITIONAL INFORMATION.

BASIN SUMMARY

Basin No.	Discharge (Q)	SWQ Volume (CF)
B1	0.1	33
B2	1.5	409
B3	0.2	64
B4	1.5	427
B5	0.5	90
B6	0.3	82

TOTAL	4.1	1106
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synthetic turf with safety

KEYED NOTES

THESE NOTES ARE USED ON SHEETS CG-101 (HUMAN BEAN COFFEE: TRACT A-3) AND CG-102 (KIDZ ACADEMY: TRACT A-4). NOT ALL NOTES ARE USED ON EACH SHEET.

- NEW PAVING AT ELEVATIONS SHOWN. SEE PAVING PLAN FOR MATERIAL, EXTENTS, JOINTS AND PAVING SECTIONS. NOTE: TO ENSURE READABILITY, NOT ALL PAVEMENT SPOT ELEVATIONS SHOW ADJACENT TOP OF CURB / TOP OF WALK ELEVATIONS. TEXT SHOWN WITHIN FLOWLINE INDICATES FLOWLINE ELEVATION. ADD 0.5' TYPICAL FOR TOP OF CURB / TOP OF ADJACENT WALK ELEVATIONS.
- TRACT A-3 AND TRACT A-4 SITE IMPROVEMENTS WILL BE CONSTRUCTED CONCURRENTLY. SEPARATE GRADING AND DRAINAGE PLANS ARE PROVIDED FOR COA HYDROLOGY ROUTING. SEE SHEETS CG-101 AND CG-102.
- PROVIDE SMOOTH TRANSITION TO EXISTING PAVEMENT.
- ADA COMPLIANT PARKING SPACE AND ACCESS AISLE. MAXIMUM SLOPE = 2% IN ANY DIRECTION.
- ADA COMPLIANT PAVED ACCESS RAMP.
- ADA COMPLIANT PEDESTRIAN ACCESS WALK AT ELEVATIONS SHOWN. MAX. 5% SLOPE, MAX. 2% CROSS-SLOPE.
- CONTRACTOR TO FIELD VERIFY AND CORRECT EXISTING PAVEMENT TO ENSURE POSITIVE DRAINAGE TO PROPOSED STORM DRAIN INLET (TRACT 4 ONLY).
- HIGH POINT / GRADE BREAK LOCATION.
- 0.5' DESIGN CONTOURS ARE SHOWN DASHED WHERE NECESSARY TO CLARIFY GRADING CONCEPT.
- 5:1 MAXIMUM GRADE TRANSITION TO EXISTING GRADES.
- SEE ARCHITECTURAL AND PLUMBING PLANS FOR SPECIFIC DOWNSPOUT LOCATIONS. OWNER'S OPTION: SURFACE DISCHARGE TO PAVEMENT VIA CONCRETE RUNDOWN. PIPE DISCHARGE THROUGH FACE OF CURB OR PIPE DOWNSPOUT DIRECTLY INTO ADJACENT STORM DRAIN LINE.
- PROVIDE 12" WIDE OPENING IN CURB TO PASS FLOW.
- PROVIDE 24" WIDE OPENING IN CURB TO PASS FLOW.
- DEPRESS LANDSCAPING 18" MAX. DEPTH FOR WATER HARVESTING THIS AREA. NO WATER HARVESTING SHALL OCCUR WITHIN 10' OF ANY BUILDING.
- CONSTRUCT SLOPED CONCRETE DUMPSTER PAD TO DIRECT LOCALIZED STORMWATER TO PROPOSED SANITARY SEWER DRAINAGE INLET. SEE UTILITY PLAN.
- CONSTRUCT 18" MAX. DEPTH STORMWATER QUALITY RETENTION POND AT ELEVATIONS SHOWN. ALL STORMWATER QUALITY PONDING VOLUMES WILL BE VERIFIED AS PART OF AS-BUILT CERTIFICATION. PONDS WHICH DO NOT PROVIDE THE REQUIRED VOLUME WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- CONSTRUCT PRIVATE STORM DRAIN SYSTEM. SEE SHEET CG-501 FOR SIZES / SLOPES / INLET INFORMATION / MATERIALS.
- INSTALL 4" AVG. DIA. X 8" DEEP ANGULAR ROCK EROSION PROTECTION TO LIMITS HATCHED. ALL EROSION PROTECTION TO BE INSTALLED OVER GEOTEX 501 NON-WOVEN GEOTEXTILE (O.E.)
- INSTALL 4"Ø WRAPPED ADS PERFORATED DRAIN PIPE WITH FILTER SOCK IN 18"x18"XLENGTH GRAVEL BED WITHIN PLAY AREA. COORDINATE ALIGNMENT WITH OWNER TO MISS' PLAYGROUND EQUIPMENT. CONNECT TO MAIN USING INSERT-A-TEE. (TRACT A-4 ONLY).

LEGEND

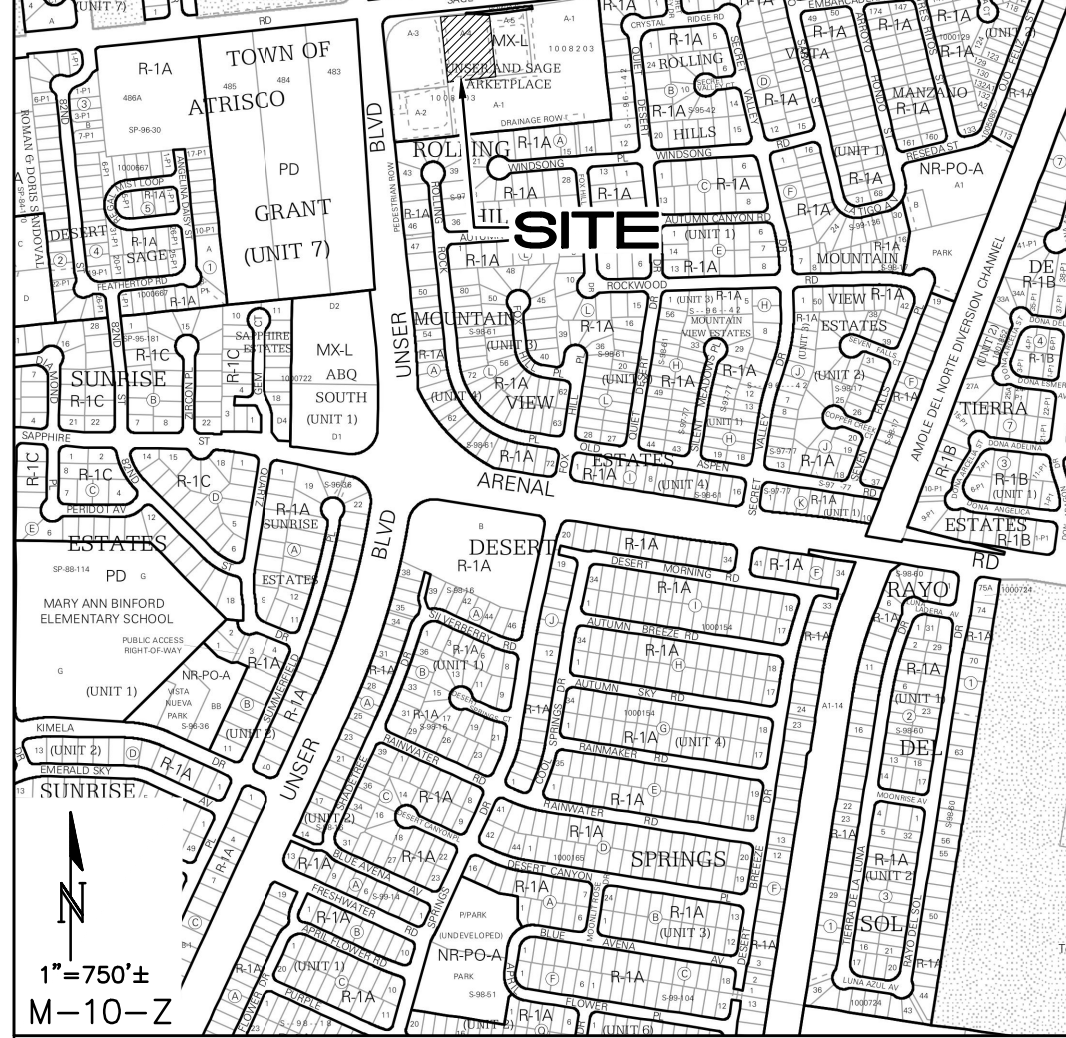
- 76 PROPOSED CONTOUR - 1' INCREMENT
- 74.5 PROPOSED CONTOUR - 0.5' INCREMENT
- 78.3 PROPOSED SPOT ELEVATION
- 78.3 PUBLIC WORK ORDER SPOT ELEVATION
- FLOW ARROW
- FF= FINISH FLOOR ELEVATION
- PROPOSED STORM DRAIN
- ROCK EROSION PROTECTION



ADA COMPLIANCE

- SIDEWALK(S) AND RAMP(S):
TARGET CROSS SLOPE = 1% TO 1.5%.
CROSS SLOPE SHALL NOT EXCEED 2%
- ACCESSIBLE RAMP(S): TARGET LONGITUDINAL SLOPE = 7%
LONGITUDINAL SLOPE SHALL NOT EXCEED 12:1 (8.3%).
- ACCESSIBLE PARKING: TARGET SLOPE = 1% TO 1.5%.
SLOPE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION

VICINITY MAP



PROJECT DATA

- LEGAL DESCRIPTION: TRACT "A-4" OF UNSER AND SAGE MARKETPLACE, ALBUQUERQUE, NEW MEXICO
- SITE AREA: 1.1023 ACRES
- FLOOD ZONE: THE SUBJECT PROPERTY APPEARS TO LIE WITHIN "ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN) AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE MAP: 35001C0336H. MAP REVISION DATE: AUGUST 16, 2012.
- ENGINEER: ISAACSON & ARFMAN, P.A.
128 MONROE ST NE, ABQ. NM 87108
PHONE: (505) 268-8828
- SURVEYOR: CSI-CARTESIAN SURVEYS INC.
P.O. BOX 44414, RIO RANCHO, N.M. 87174
PHONE (505) 896 - 3050
- OFFSITE FLOW: NO OFFSITE FLOW AFFECTS THIS PROPERTY OTHER THAN WHAT IS TO BE PASSED WITHIN THE SHARED STORM DRAIN SYSTEM / EASEMENT.
- BENCHMARK: VERTICAL DATUM IS BASED UPON THE ALBUQUERQUE CONTROL STATION MONUMENT "1-M10", ELEVATION = 5082.757 FEET (NAVD 1988).

STORMWATER QUALITY REQ'S

- ALL NEW DEVELOPMENT AND REDEVELOPMENT PROJECTS SHALL APPLY BEST MANAGEMENT PRACTICES (BMPs) TO MANAGE THE STORMWATER QUALITY VOLUME (SWQV) BY MANAGEMENT ON-SITE, OR PAYMENT-IN-LIEU, OR PRIVATE OFF-SITE MITIGATION.
- FOR NEW DEVELOPMENT SITES, THE CABQ STORMWATER QUALITY VOLUME (SWQV) IS BASED ON THE 90TH PERCENTILE STORM EVENT OR 0.42".
- THE IMPERVIOUS AREA FOR THIS PROPERTY IS CALCULATED AS APPROXIMATELY 82% OF TOTAL AREA: (0.82 * 1.10 AC) = 39,290 SF. THE TOTAL REQUIRED S.Q. RETENTION VOLUME = 1,375 CF (SEE BASIN SUMMARY THIS SHEET).
- TWO SWQ RETENTION PONDS WILL BE CONSTRUCTED AS SHOWN (DRAINAGE BASIN PONDS B2:1 AND B2:2).

POND B2:1		
Contour	Area	Volume
5078	215	
5076.5	10	169 CF
1.5:1 SIDE SLOPES		
POND VOLUME = 169 CF		

POND B2:2		
Contour	Area	Volume
5078	175	
5076.5	25	150 CF
2:1 SIDE SLOPES		
POND VOLUME = 150 CF		

PER BASIN CALCS:
BASIN B2 REQUIRES 409 CF OF SWQV.

TOTAL SWQV PROVIDED = 319 CF.

- A "PAYMENT IN-LIEU FOR S.Q. VOLUME REQUIREMENT" TREASURY DEPOSIT SLIP WILL BE PROVIDED BY C.O.A. HYDROLOGY BASED ON THE PORTION OF S.Q. VOLUME THAT IS NOT RETAINED ON-SITE (1375 - 319 = 1056 CF) @ \$8.00 / CF FOR COMMERCIAL.
- A DRAINAGE COVENANT WILL BE REQUIRED FOR THE SWQV PONDS PRIOR TO RELEASE OF CERTIFICATE OF OCCUPANCY. THE ORIGINAL NOTARIZED FORM AND EXHIBIT "A" ALONG WITH THE RECORDING FEE (PAYABLE TO CITY OF ALBUQUERQUE) WILL BE SUBMITTED BY THE OWNER.

Isaacson & Arfman, Inc.
Civil Engineering Consultants

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2389 CG-101.dwg 1 December 2020

FRED C. ARFMAN
NEW MEXICO
7322
PROFESSIONAL SEAL

Engineer

KIDZ ACADEMY
HUMAN BEAN COFFEE SHOP
Albuquerque, New Mexico
Unser & Sage Marketplace

ISSUE: CONSTRUCTION DOCUMENTS
PROJECT NUMBER: IA 2380
FILE: BJB
DRAWN BY: FCA
CHECKED BY: FCA
DATE: 11-13-2020

Description
Date
No

SHEET TITLE
GRADING AND DRAINAGE PLAN

SHEET NUMBER
CG-101

BOULEVARD S.W.

TRACT A-3

TRACT A-4

LEGEND

NYLOPLAST BASINS: SEE BASIN LAYOUT DIAGRAMS THIS SHEET FOR BASIN DIAMETERS, CONNECTING PIPE SIZES, PIPE ANGLES, PIPE INVERT(S), GRATE TYPE,

- MH#** ALL MANHOLES (MH#) SHALL BE CONSTRUCTED WITH:
- LOCKING, SOLID RIM
 - 2.0' SUMP
 - 8" WIDE X 6" DEEP CONCRETE COLLAR
- TD#** ALL TRAFFIC RATED DRAIN INLETS (TD#) SHALL BE CONSTRUCTED WITH:
- LOCKING, 2'X3' TRAFFIC INLET
 - 2.0' SUMP
 - 12" WIDE X 8" DEEP CONCRETE COLLAR

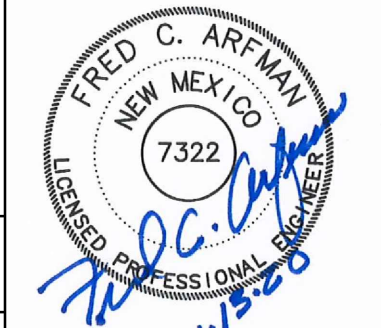
ADS INLINE DRAINS:

- LI#** ALL LANDSCAPE AREA DRAIN INLETS (LI#) SHALL BE CONSTRUCTED WITH:
- 12" DIA. ADS INLINE DRAIN WITH 12" OUTLET.
 - 12"Ø LOCKING, DOMED GRATE AT RIM AND INVERT ELEVATIONS SHOW ON PLAN.
 - 6" WIDE X 6" DEEP CONCRETE COLLAR

STORM DRAIN NOTES

- A. ALL PRIVATE STORM DRAIN LINES AND FITTINGS SHALL BE THE FOLLOWING MATERIAL:
- < 12"DIA. SHALL BE EITHER ADS N-12 WT PIPE OR PVC SCHD 40.
 - = 12"DIA. SHALL BE EITHER ADS N-12 WT PIPE OR ADS MEGA GREEN WT PIPE OR PVC SCHD 40.
 - > 12"DIA. SHALL BE ADS N-12 WT PIPE OR ADS MEGA GREEN WT PIPE.
- B. INSTALL ALL STORM DRAIN INLETS AND PIPE PER MANUFACTURER'S SPECIFICATIONS.
- C. STORM DRAIN SYSTEM WILL REQUIRE REGULAR MAINTENANCE TO ENSURE PROPER FUNCTIONING DURING STORM EVENTS. ENGINEER RECOMMENDS THAT OWNER PUT IN PLACE INSPECTION AND MAINTENANCE REQUIREMENTS SCHEDULED TO OCCUR YEARLY AND AFTER MAJOR STORM EVENTS.
- D. ROOF DISCHARGE (RD). SEE PLUMBING PLAN FOR SPECIFIC LOCATIONS AND SIZES. FOR DIRECT CONNECTIONS TO STORM DRAIN (SEE GRADING AND DRAINAGE PLAN KEYED NOTE 11,) EXTEND TO MAIN, MIN. 0.5% SLOPE, AND CONNECT USING TO MAIN USING 'INSERT-A-TEE' OR REQUIRED FITTINGS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES.

Isaacson & Arman, Inc.
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128 Monroe Street NE
Albuquerque, NM 87108
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Engineer

KIDZ ACADEMY
HUMAN BEAN COFFEE SHOP
Albuquerque, New Mexico
Unser & Sage Marketplace

ISSUE: CONSTRUCTION DOCUMENTS
PROJECT NUMBER: IA 2360
FILE: -
DRAWN BY: BJB
CHECKED BY: FCA
DATE: 11-13-2020

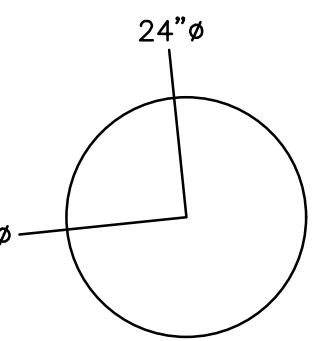
No	Date	Description

SHEET TITLE

STORM DRAIN DETAILS

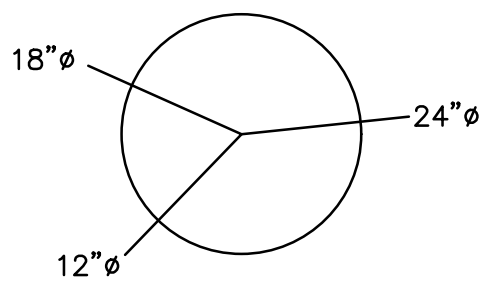
SHEET NUMBER

CG-501



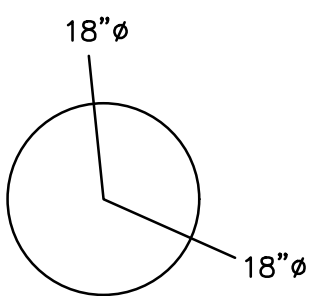
MH1

30" BASIN
LOCKING, SOLID LID (H-20 RATED)
RIM= 5077.10
INV= 5073.10
SUMP= 5071.10



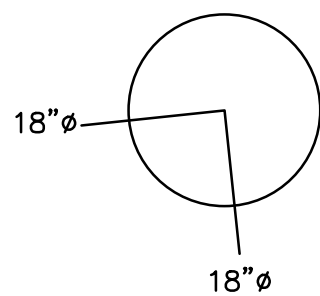
MH2

30" BASIN
LOCKING, SOLID LID (H-20 RATED)
RIM= 5079.40
INV= 5074.70
SUMP= 5072.70



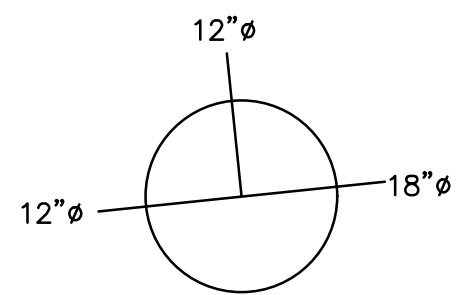
MH3

24" BASIN
LOCKING, SOLID LID (H-20 RATED)
RIM= 5080.30
INV= 5074.90
SUMP= 5072.90



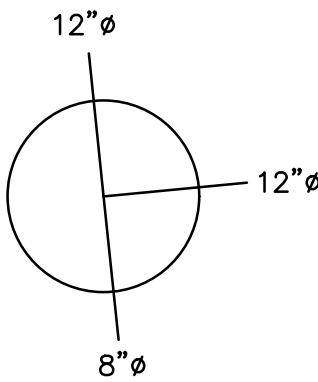
MH#4

24" BASIN
LOCKING, SOLID LID (H-20 RATED)
RIM= 5080.20
INV= 5076.00
SUMP= 5074.00



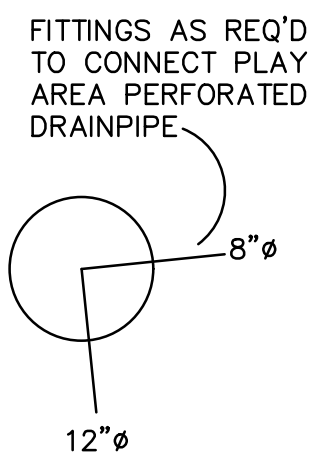
MH#5

24" BASIN
LOCKING, SOLID LID (H-20 RATED)
RIM= 5079.50
INV= 5076.30
SUMP= 5074.30



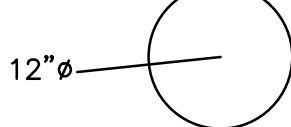
MH#6

24" BASIN
LOCKING, SOLID LID
RIM= 5079.5
INV= 5072.6
SUMP= 5070.6



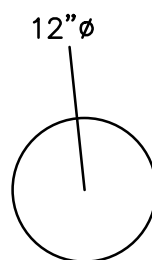
TI#1

18" BASIN
2'X3' TRAFFIC INLET
RIM= 5079.0
INV= 5074.6
SUMP= 5072.6



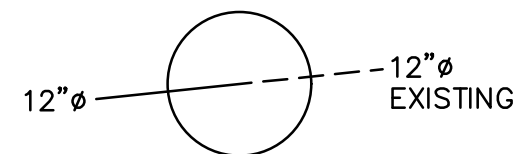
TI#2

18" BASIN
2'X3' TRAFFIC INLET
RIM= 5079.0
INV= 5075.6
SUMP= 5073.6



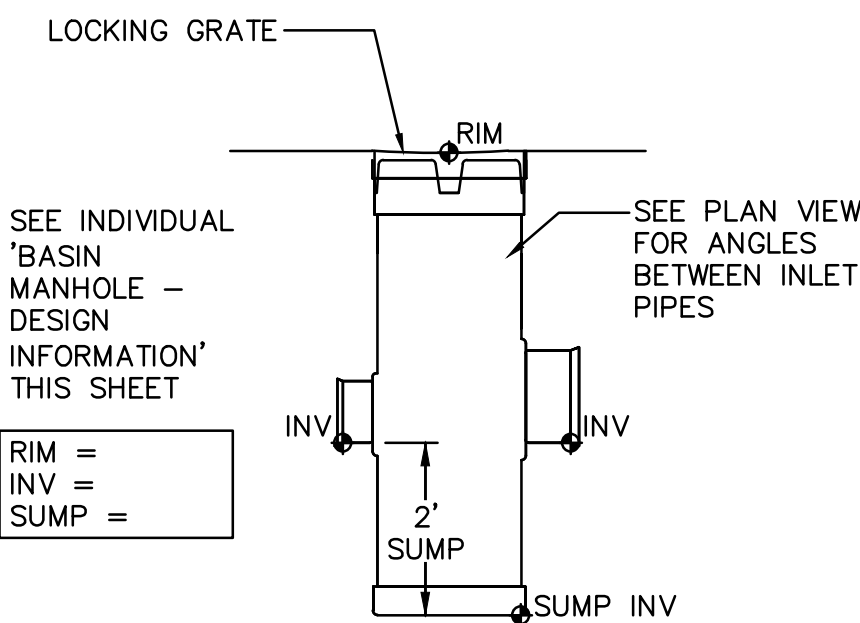
TI#3

18" BASIN
2'X3' TRAFFIC INLET
RIM= 5080.0
INV= 5077.5
SUMP= 5075.5



TI#4

18" BASIN
2'X3' TRAFFIC INLET
RIM= 5077.2
INV= 5072.4
SUMP= 5070.4



NYLOPLAST BASIN MANHOLE DESIGN
Scale: N.T.S.

NYLOPLAST BASIN MANHOLE
Scale: N.T.S.