

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

September 14, 2020

David Thompson  
Thompson Engineering Consultants, Inc.  
P.O. Box 65760  
Albuquerque, NM 87190

RE: **Starbuck's Menaul and Carlisle  
American Square  
Request for Certificate of Occupancy - Permanent  
Hydrology Final Inspection –Approved  
Grading and Drainage Plan Stamp Date: 10/24/19  
Certification Dated: 9/8/20  
Drainage File: H16D083E**

PO Box 1293

Dear Mr. Thompson:

Albuquerque

NM 87103

Based on the submittal received on 9/8/20 and field inspections 9/11/20, this certification is approved in support of Permanent Certificate of Occupancy by Hydrology. Please note that there is a discrepancy between the plan and what is in the field. The pond on the north side of the drive-thru entrance has a curb-cut adjacent to the entrance for storm flows to enter in to the pond, but the grades in the pond at this cut are higher than the cut and the grades outside this cut slope away from the pond. This will act more as an overflow than inlet, which is not needed for this pond. I am inclined to have this cut closed, but I do not believe it will be detrimental to the site drainage, so I will not require this to be done.

www.cabq.gov

If you have any questions, please contact me at 924-3986 or [earmijo@cabq.gov](mailto:earmijo@cabq.gov).

Sincerely,

Ernest Armijo, P.E.  
Principal Engineer, Planning Dept.  
Development Review Services



# 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: \_\_\_\_\_



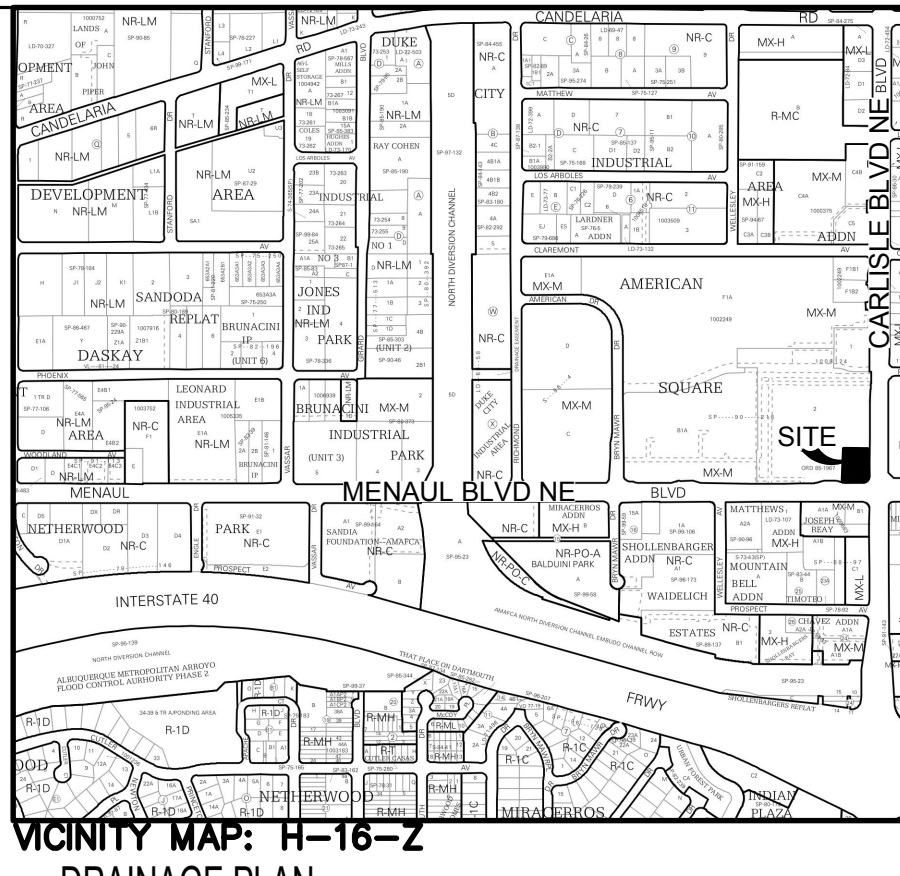
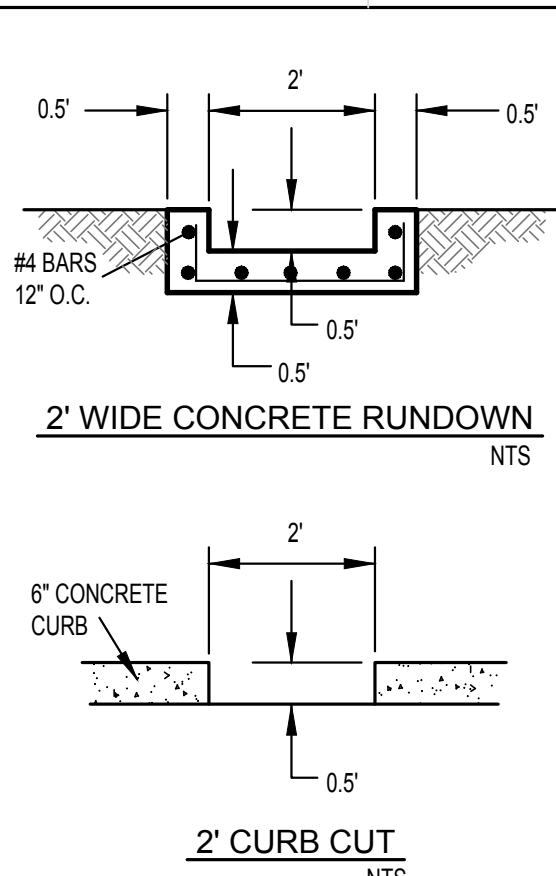
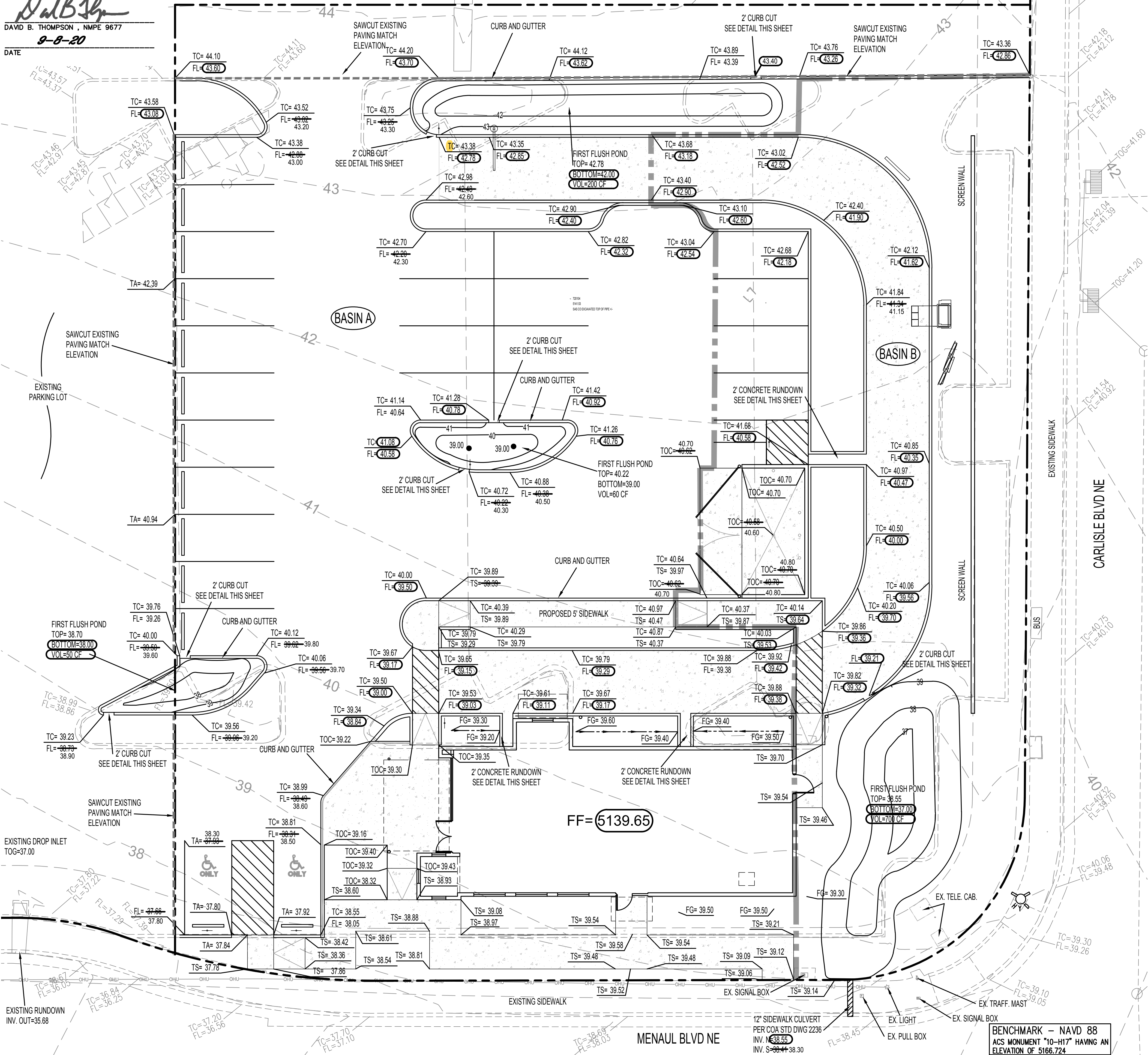
# DRAINAGE CERTIFICATION

I, DAVID B. THOMPSON, NMPE 9677, OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 1-25-12. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ANDREW S. MEDIAN, NMPS 12649, OF SANDIA LAND SURVEYING LLC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 9-8-20 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PRESENTED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

DAVID B. THOMPSON, NMPE 9677  
9-8-20

DATE



LEGAL DESCRIPTION: FUTURE PARCEL FROM OF LOT 2, AMERICAN SQUARE

SITE AREA: 0.686 ACRES

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED AUGUST 16, 2012 (PANEL NO. 35001C0351H) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN.

EXISTING DRAINAGE CONDITIONS:

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH SETION 22 OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM), ENTITLED "DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL." THE DESIGN STORM USED FOR BOTH UNDEVELOPED AND DEVELOPED CONDITIONS IS THE 100-YEAR, 24-HOUR STORM EVENT FOR RUNOFF. THE SITE IS LOCATED IN ZONE 1 SO THE 100-YEAR, 24-HOUR STORM EVENT IS 2.66 INCHES. UNDER EXISTING CONDITIONS, THE FUTURE PARCEL IS A PARKING LOT WITH LAND TREATMENTS B, C, AND D.

THE FUTURE PARCEL IS LOCATED IN THE NEAR NORTHEAST ALBUQUERQUE AT THE CORNER OF THE CARLISLE/MENAU INTERSECTION. CURRENTLY THE SITE DRAINS FROM NORTHEAST TO SOUTHWEST TO THE AMERICAN FURNITURE PARKING AREA. THE EXISTING PEAK RUNOFF FROM THE FUTURE PARCEL UNDER EXISTING CONDITIONS IS 3.13 CFS AND 5.070 CUBIC FEET OF RUNOFF VOLUME DURING A 100-YEAR, 6-HOUR STORM. THERE ARE NO OFF-SITE FLOWS THAT REACH THE PROPERTY.

DEVELOPED DRAINAGE CONDITIONS:

THIS PROJECT INVOLVES THE CONSTRUCTION OF A STARBUCKS COFFEE SHOP WITH PARKING AND LANDSCAPING. THE SITE HAS BEEN DIVIDED INTO TWO DRAINAGE BASINS. BASIN A INCLUDES THE WESTERN MAJORITY OF THE SITE. BASIN A DRAINS TO THE SOUTHWEST CORNER OF THE SITE TO AN EXISTING INLET WEST OF THE SITE. FIRST FLUSH PONDS ARE LOCATED IN SOME OF THE LANDSCAPED ISLANDS. THE RUNOFF FROM BASIN A IS 2.12 CFS. BASIN B INCLUDES THE EAST PORTION OF THE SITE. BASIN B WILL DRAIN TO THE SOUTHEAST PART OF THE SITE TO A FIRST FLUSH POND, WHICH HAS AN OVERFLOW INTO MENAU BLVD. THROUGH A 24-INCH SIDEWALK CULVERT. RUNOFF FROM BASIN B IS 0.73 CFS. FIRST FLUSH POND VOLUME TOTALS 1,010 CUBIC FEET.

FIRST FLUSH = (0.34IN/12IN/FT) X ((0.478 X .867) + (0.208 X .41)) X 43,560(SF/AC) = 617 CF REQUIRED, 1,010 CF PROVIDED

SIDEWALK CULVERT CAPACITY, WEIR EQUATION = (2.7) X (1FT) X (7IN/12IN/FT)<sup>1.5</sup> = 1.2 CFS

100-YEAR HYDROLOGIC CALCULATIONS

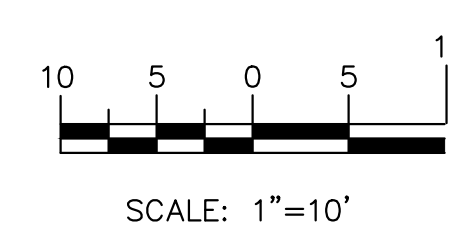
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (cu-ft)	V (24-hr) (acre-ft)	V (24-hr) (cu-ft)	Q (cfs)	
EXISTING CONDITIONS											
SITE	0.6860	0.00	3.60	3.60	92.80	2.04	0.12	5.070	0.14	5.995	3.1
TOTAL RUNOFF	0.686						0.12	5.070	0.14	5.995	3.1
PROPOSED CONDITIONS											
BASIN A	0.4780	0.00	6.60	6.70	86.70	1.97	0.08	3.410	0.09	4.012	2.1
BASIN B	0.2080	0.00	29.50	29.50	41.00	1.43	0.02	1.082	0.03	1.206	0.7
TOTAL RUNOFF	0.686						0.10	4.492	0.12	5.217	2.8
EXCESS PRECIP.											
		0.53	0.78	1.13	2.12	E (in)					
PEAK DISCHARGE		1.56	2.28	3.14	4.7	Q <sub>ex</sub> (cfs)					
ZONE = 2											
WEIGHTED E (in) = (E <sub>A</sub> %)(A) + (E <sub>B</sub> %)(B) + (E <sub>C</sub> %)(C) + (E <sub>D</sub> %)(D)											
V <sub>6hr</sub> (acre-ft) = V <sub>6hr</sub> (in) (AREA)/12											
V <sub>24hr</sub> (acre-ft) = (A)(A <sub>100</sub> )/P <sub>100</sub> + (B)(B <sub>100</sub> )/P <sub>100</sub> + (C)(C <sub>100</sub> )/P <sub>100</sub> + (D)(D <sub>100</sub> )/P <sub>100</sub>											
Q (cfs) = (0.0015)(A) + (0.0015)(B) + (0.0015)(C) + (0.0015)(D)											
P <sub>100</sub> (in) = 2.75											
P <sub>100</sub> (in) = 3.95											

PRIVATE DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY  
NOTICE TO CONTRACTOR  
(SPECIAL ORDER 19 ~ "SO-19")

- AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" (OR (505) 260-1990) FOR THE LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
- WORK ON ARTERIAL STREETS MAY BE REQUIRED ON A 24-HOUR BASIS.
- CONTRACTOR MUST CONTACT HENRY BLAIR AT (505) 203-7358 AND CONSTRUCTION COORDINATION AT 924-3416 TO SCHEDULE AN INSPECTION.

LEGEND	
TC= TOP OF CURB	EXISTING STORM INLET
FL= FLOW LINE	PROPOSED CURB
TS= TOP OF SIDEWALK	PROPOSED CURB AND GUTTER
TOC= TOP OF CONCRETE	
TA= TOP OF ASPALT	
FG= FINISHED GRADE	
EXISTING CONTOURS	PROPOSED HANDICAP RAMP
EXISTING CURB & GUTTER	PROPERTY BOUNDARY
EXISTING SIDEWALK	BASIN BOUNDARY
EXISTING STORM DRAIN	PROPOSED CHEVRON STRIPES
AS-BUILT NEW ELEVATION	PROPOSED CONCRETE
	PROPOSED SWALE
	AS-BUILT ELEVATION

Thompson  
Engineering  
Consultants, Inc.  
tccm@yahoo.com  
P.O. BOX 65760  
ALBUQUERQUE, NM 87193  
PHONE: (505) 271-2199  
FAX: (505) 830-9248



ARCHITECT

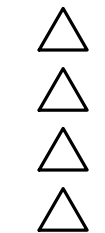


ENGINEER

PROJECT

Starbucks Shell  
Grading and Drainage Plan  
Northwest Corner of Carlisle & Menaul  
Albuquerque, New Mexico

REVISIONS



DRAWN BY DEM  
REVIEWED BY DBT  
DATE 9-8-20  
PROJECT NO. X  
DRAWING NAME

Starbucks Shell  
Grading and Drainage Plan

SHEET NO.