

# CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

March 27, 2017

J. Graeme Means, P.E.  
High Mesa Consulting Group  
6010 B Midway Park Blvd NE  
Albuquerque, NM, 87109

**RE: CEI Enterprises  
Grading Plan  
Stamp Date: 3/6/17  
Hydrology File: M14D026**

Dear Mr. Means:

PO Box 1293

Based upon the information provided in your submittal received 3/7/2017, the Grading Plan is approved for Grading Permit and Paving Permit.

Albuquerque

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Albuquerque

Sincerely,

New Mexico 87103

*Renee C. Brissette*

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

Reneé C. Brissette, P.E.  
Senior Engineer, Hydrology  
Planning Department



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

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

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Applicant:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

Check all that Apply:

**DEPARTMENT:**

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

**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)  
  
☐ OTHER (SPECIFY) \_\_\_\_\_

**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

**PRE-DESIGN MEETING?**

☐ OTHER (SPECIFY) \_\_\_\_\_

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

DATE SUBMITTED: \_\_\_\_\_ By: \_\_\_\_\_

COA STAFF: \_\_\_\_\_ ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_



# CALCULATIONS

<b>I. SITE CHARACTERISTICS</b>		
A. PRECIPITATION ZONE =	2	
B. $P_{100, 6 \text{ HR}} = P_{60} =$	2.4 IN	
C. TOTAL PROJECT AREA (A <sub>T</sub> ) =	40,500 SF	
(DISTURBED AREA)	0.93 AC	
<b>D. LAND TREATMENTS</b>		
<b>1. EXISTING LAND TREATMENT</b>		
TREATMENT	AREA (SF/AC)	%
A		
B		
C	40,500 SF	100
D	0.93 AC	
<b>2. DEVELOPED LAND TREATMENT</b>		
TREATMENT	AREA (SF/AC)	%
A		
B		
C	18,000 SF	44
D	22,500 SF	56
	0.52 AC	

## II. HYDROLOGY

### A. EXISTING CONDITION 100 YEAR

**1. 100-YR STORM**  
**a. VOLUME 100-YR 6-HR**  
 $E_w = (E_p A_p + E_p A_g + E_p A_c + E_p A_o) / A_t$   
 $E_w = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.93) + (2.12 \times 0.00) / 0.93 = 1.13 \text{ IN}$   
 $V_{100, 6 \text{ HR}} = (E_w / 12) A_t = (1.13 / 12) 0.93 = 0.0876 \text{ AC-FT} = 3,810 \text{ CF}$

**b. VOLUME 100-YR 24-HR**  
 $V_{100, 24 \text{ HR}} = V_{6 \text{ HR}} \times A_o \times (P_{24 \text{ HR}} - P_{6 \text{ HR}}) / 12 \text{ in/ft}$   
 $= 0.09 \times 0.00 \times (2.75 - 2.35) / 12 \text{ in/ft} = 0.0876 \text{ AC-FT} = 3,810 \text{ CF}$

**c. PEAK DISCHARGE**  
 $Q_p = Q_{p1} A_{p1} + Q_{p2} A_{p2} + Q_{p3} A_{p3} + Q_{p4} A_{p4}$   
 $Q_p = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.93) + (4.70 \times 0.00) = 2.9 \text{ CFS}$

### B. DEVELOPED CONDITION

**1. 100-YR STORM**  
**a. VOLUME**  
 $E_w = (E_p A_p + E_p A_g + E_p A_c + E_p A_o) / A_t$   
 $E_w = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.41) + (2.12 \times 0.52) / 0.93 = 1.68 \text{ IN}$   
 $V_{100, 6 \text{ HR}} = (E_w / 12) A_t = (1.68 / 12) 0.93 = 0.1302 \text{ AC-FT} = 5,670 \text{ CF}$

**b. VOLUME 100-YR 24-HR**  
 $V_{100, 24 \text{ HR}} = V_{6 \text{ HR}} \times A_o \times (P_{24 \text{ HR}} - P_{6 \text{ HR}}) / 12 \text{ in/ft}$   
 $= 0.13 \times 0.52 \times (2.75 - 2.35) / 12 \text{ in/ft} = 0.1474 \text{ AC-FT} = 6,420 \text{ CF}$

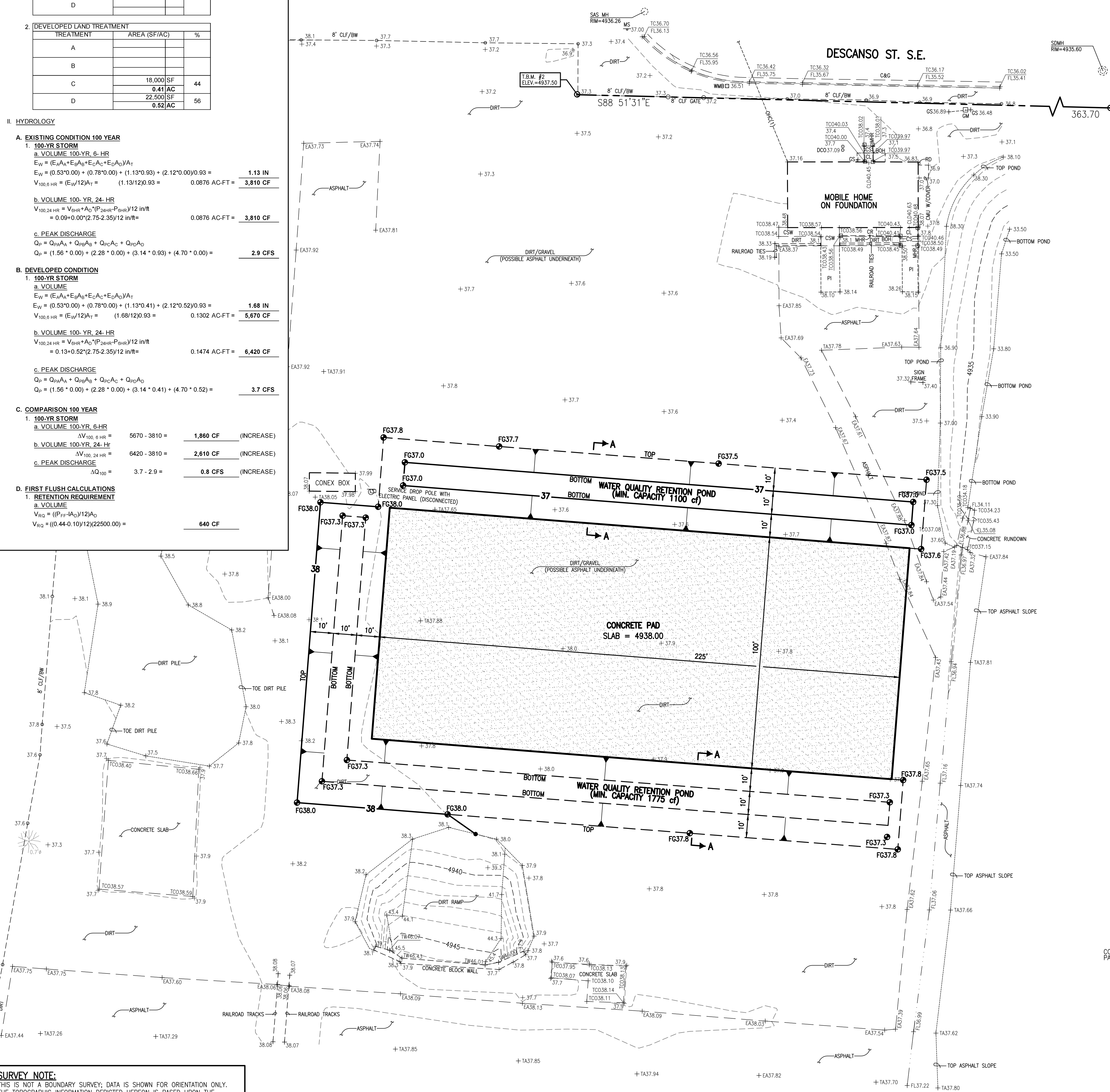
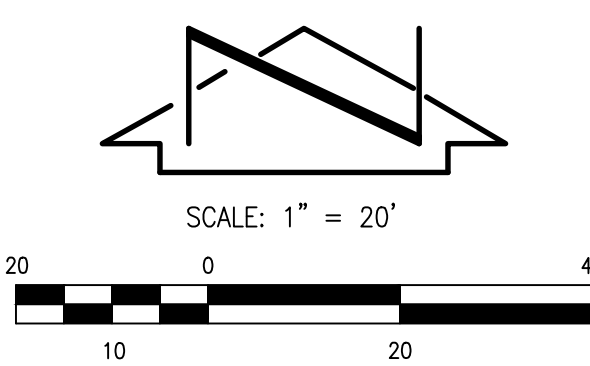
**c. PEAK DISCHARGE**  
 $Q_p = Q_{p1} A_{p1} + Q_{p2} A_{p2} + Q_{p3} A_{p3} + Q_{p4} A_{p4}$   
 $Q_p = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.41) + (4.70 \times 0.52) = 3.7 \text{ CFS}$

### C. COMPARISON 100 YEAR

<b>1. 100-YR STORM</b>		
<b>a. VOLUME 100-YR 6-HR</b>	5670 - 3810 =	1,860 CF (INCREASE)
<b>b. VOLUME 100-YR 24-HR</b>	6420 - 3810 =	2,610 CF (INCREASE)
<b>c. PEAK DISCHARGE</b>	3.7 - 2.9 =	0.8 CFS (INCREASE)

### D. FIRST FLUSH CALCULATIONS

**1. RETENTION REQUIREMENT**  
**a. VOLUME**  
 $V_{R10} = (P_{10} - A_{10}) / 12 A_o$   
 $V_{R10} = ((0.44 - 0.10) / 12) (22,500 \text{ SF}) = 640 \text{ CF}$



**SURVEY NOTE:**  
 THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY.  
 THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE  
 PARTIAL TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP,  
 NMPS NO. 11184, DATED 01/10/2017 (2016.063.1).

**HIGH MESA Consulting Group**  
 6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109  
 Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesa.com

**GRADING PLAN**  
**CEI ENTERPRISE**

# DRAINAGE PLAN

## I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE AREA OF ALBUQUERQUE, REPRESENTS MODIFICATION TO AN EXISTING MANUFACTURING FACILITY. THE PROPOSED DEVELOPMENT IS CONSTRUCTION OF A NEW CONCRETE PAD WITHIN AN EXISTING STORAGE AND STAGING AREA OF THE MANUFACTURING FACILITY. THE OVERALL MANUFACTURING FACILITY HAS AN APPROVED MASTER DRAINAGE PLAN. THE PROPOSED DEVELOPMENT IS LOCATED IN AN AREA OF THE MASTER DRAINAGE PLAN THAT SHOWS NO PLANNED OR REQUIRED IMPROVEMENTS. SINCE THE MASTER DRAINAGE PLAN SHOWS NOTHING FOR THIS AREA, THE DRAINAGE CONCEPT FOR THIS PROJECT WILL CONTINUE TO FOLLOW EXISTING DRAINAGE PATTERNS AND TO UTILIZE NEW WATER QUALITY PONDING TO RETAIN ANY INCREASE IN RUNOFF AND HANDLE FIRST FLUSH REQUIREMENTS. THERE ARE NO OFFSITE FLOWS INTO THE SITE.  
 THE TOTAL DISTURBED AREA FOR THE PROJECT WILL BE LESS THAN 1 ACRE. A SEDIMENT EROSION CONTROL PLAN OR STORM WATER POLLUTION PREVENTION PLAN IS NOT PROPOSED.  
 THIS SUBMITTAL IS MADE IN SUPPORT OF GRADING AND PAVING PERMITS.

## II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED NORTHWEST OF THE INTERSECTION OF WOODWARD RD. AND BROADWAY BLVD. THE CURRENT LEGAL DESCRIPTION IS A PORTION OF LOTS 14, 15, AND 16, BLOCK A, UNIT 1, SOUTH BROADWAY ACRES. AS SHOWN BY FIRM PANEL 342 OF 825 PUBLISHED BY THE NATIONAL FLOOD INSURANCE PROGRAM FOR BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS, DATED SEPTEMBER 26, 2008, THIS SITE LIES WITHIN A DESIGNATED FLOOD HAZARD ZONE X AND IN AN AREA THAT IS SHOWN AS BEING PROTECTED FROM THE 1% ANNUAL CHANCE FLOOD HAZARD BY LEVEE, DIKE OR OTHER STRUCTURE.

## III. BACKGROUND DOCUMENTS

THE FOLLOWING IS A LIST OF DOCUMENTS RELATED TO THE SITE AND SURROUNDING AREA. THIS LIST MAY NOT BE ALL INCLUSIVE, HOWEVER REPRESENTS A SUMMARY OF THE RELEVANT PLANS AND DOCUMENTS WHICH ARE KNOWN TO THE ENGINEER AT THE TIME OF THE PLAN PREPARATION.

- CEI MASTER DRAINAGE PLAN AND CALCULATIONS PREPARED BY HIGH MESA CONSULTING GROUP (HMC), DATED 02/20/2008 (NMPE 8547). THE MASTER DRAINAGE PLAN SHOWS NO IMPROVEMENTS IN THE AREA OF THIS PROPOSED PROJECT AND SHOWS A LAND TREATMENT OF C BEING USED FOR THIS AREA IN THE DEVELOPED CONDITION.
- CEI ENTERPRISES PAINT BOOTH ADDITION - PHASE 3A CERTIFICATION PREPARED BY HIGH MESA CONSULTING GROUP (HMC), DATED 02/20/2008 (NMPE8547). AN APPROVED PROJECT THAT IS PART OF THE PHASE 3 SHOWN IN THE MASTER DRAINAGE PLAN.
- CEI ENTERPRISES GRADING AND PAVING REPAIRS PREPARED BY HIGH MESA CONSULTING GROUP (HMC), DATED 02/20/2008 (NMPE 8547).
- CEI ENTERPRISES MASTER DRAINAGE PLAN UPDATE-DETENTION POND AND EVALUATION STUDY PREPARED BY HIGH MESA CONSULTING GROUP (HMC) DATED 02-20-2008.
- PARTIAL TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (HMC), DATED 01/10/2017 (NMPS11184). THIS SURVEY DOCUMENTS THE EXISTING CONDITIONS FOR THE SITE.

## IV. EXISTING CONDITIONS

THE EXISTING SITE IS A PORTION OF A LARGER MANUFACTURING FACILITY THAT CONSISTS OF A MATERIAL STOCKPILE, EQUIPMENT AND VEHICLE STORAGE YARD, AND MOBILE HOME. THE MAJORITY OF THE SITE IS DIRT AND GRAVEL WITH A FEW PAVED SECTIONS. THE SITE PRIMARILY DRAINS IN A SOUTHWEST TO NORTHEAST DIRECTION TO A PAVED VALLEY GUTTER THAT COLLECTS AND CONVEYS RUNOFF TO THE DETENTION POND LOCATED AT THE NORTHEAST CORNER OF THIS SITE.  
 OFFSITE FLOWS DO NOT IMPACT THE SITE.

## V. DEVELOPED CONDITIONS

THE PROJECT CONSTRUCTION CONSISTS OF CONSTRUCTION OF A NEW CONCRETE PAD REPLACING EXISTING UNPAVED AREAS PREVIOUSLY USED FOR MATERIAL STORAGE AND STOCKPILING. NEW WATER QUALITY RETENTION PONDING WILL BE USED TO OFFSET THE INCREASE IN RUNOFF GENERATED BY THE ADDITION OF CONCRETE PAD. THE WATER QUALITY PONDS WILL OVERFLOW AND DRAIN EAST TO THE EXISTING PAVED VALLEY GUTTER THAT DRAINS TO THE EXISTING DETENTION POND LOCATED AT THE NORTHEAST CORNER OF THE SITE. THE PROPOSED CONSTRUCTION WILL RESULT IN A TOTAL DISTURBED AREA OF 0.9 ACRES WHICH IS LESS THAN THE 1 ACRE CITY OF ALBUQUERQUE SITE DISTURBANCE REQUIREMENT FOR A SEDIMENT AND EROSION CONTROL PLAN AND EPA REQUIREMENT STORMWATER POLLUTION PREVENTION PLAN. THE REMAINING SITE AREAS WILL CONTINUE TO FOLLOW EXISTING DRAINAGE PATTERNS AS DESCRIBED ABOVE. THE MASTER DRAINAGE PLAN SHOWS NO SPECIFIC DRAINAGE REQUIREMENTS OR PLANNED IMPROVEMENTS FOR THIS AREA. BY OFFSETTING THE INCREASE IN RUNOFF AND PEAK DISCHARGE BY RETENTION PONDING THESE IMPROVEMENTS SHOULD HAVE NO EFFECT ON THE PREVIOUSLY APPROVED MASTER DRAINAGE PLAN FOR THE AREAS OF THIS PROPERTY.

THE PROPOSED WATER QUALITY RETENTION POND MINIMUM CAPACITY WILL EQUAL 2875 CF. THIS IS GREATER THAN THE INCREASE IN 100 YEAR, 24 HOUR STORM VOLUME OF 2,610 CF AND FIRST FLUSH REQUIREMENT OF 640 CF SHOWN IN THE DRAINAGE CALCULATIONS FOR THIS PROJECT.

## VI. GRADING PLAN

THE GRADING PLAN SHOWS 1) THE EXISTING GRADES INDICATED BY THE CONTOURS AT 1 FOOT INTERVALS AND SPOT ELEVATIONS FORM THE TOPOGRAPHIC SURVEY REFERENCED BY THIS OFFICE; 2) THE LIMIT AND CHARACTER OF EXISTING IMPROVEMENTS AS SHOWN BY THE AFOREMENTIONED SURVEY; 3) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS; 4) PROPOSED GRADES INDICATED BY CONTOURS AT 1 FOOT INTERVALS AND SPOT ELEVATIONS; AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

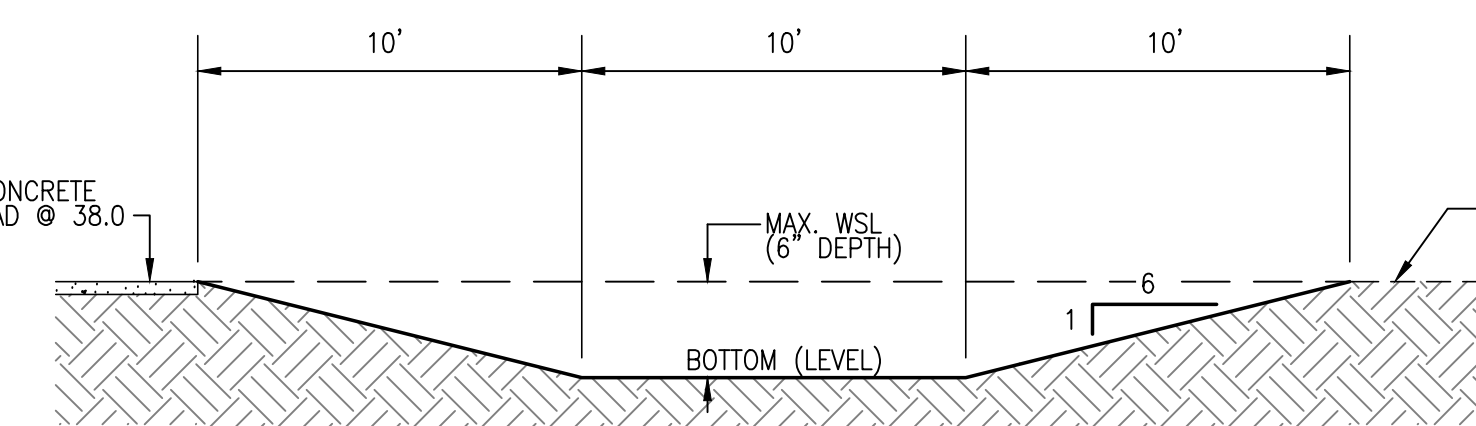
## VII. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100 YEAR, 6 HOUR RAINFALL EVENT AND 100 YEAR 24 HOUR RAINFALL EVENT. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISIONS OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993 AND REVISED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS SHOWN BY THE CALCULATIONS, THERE WILL BE AN INCREASE IN RUNOFF AND PEAK DISCHARGE RATE AS A RESULT OF THE NEW IMPROVEMENTS, BUT THERE WILL BE A NET DECREASE IN RUNOFF DUE TO THE ADDITION OF THE ONSITE RETENTION.

## VIII. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED HEREIN:

- THE PROPOSED IMPROVEMENTS REPRESENT MODIFICATIONS TO AN EXISTING MANUFACTURING FACILITY.
- THE PROPOSED IMPROVEMENTS WILL FOLLOW EXISTING DRAINAGE PATTERNS.
- THE PROPOSED IMPROVEMENTS WILL RESULT IN AN INCREASE IN THE DEVELOPED RUNOFF AND PEAK DISCHARGE GENERATED BY THE SITE THAT WILL BE OFFSET BY ONSITE RETENTION.
- THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS.

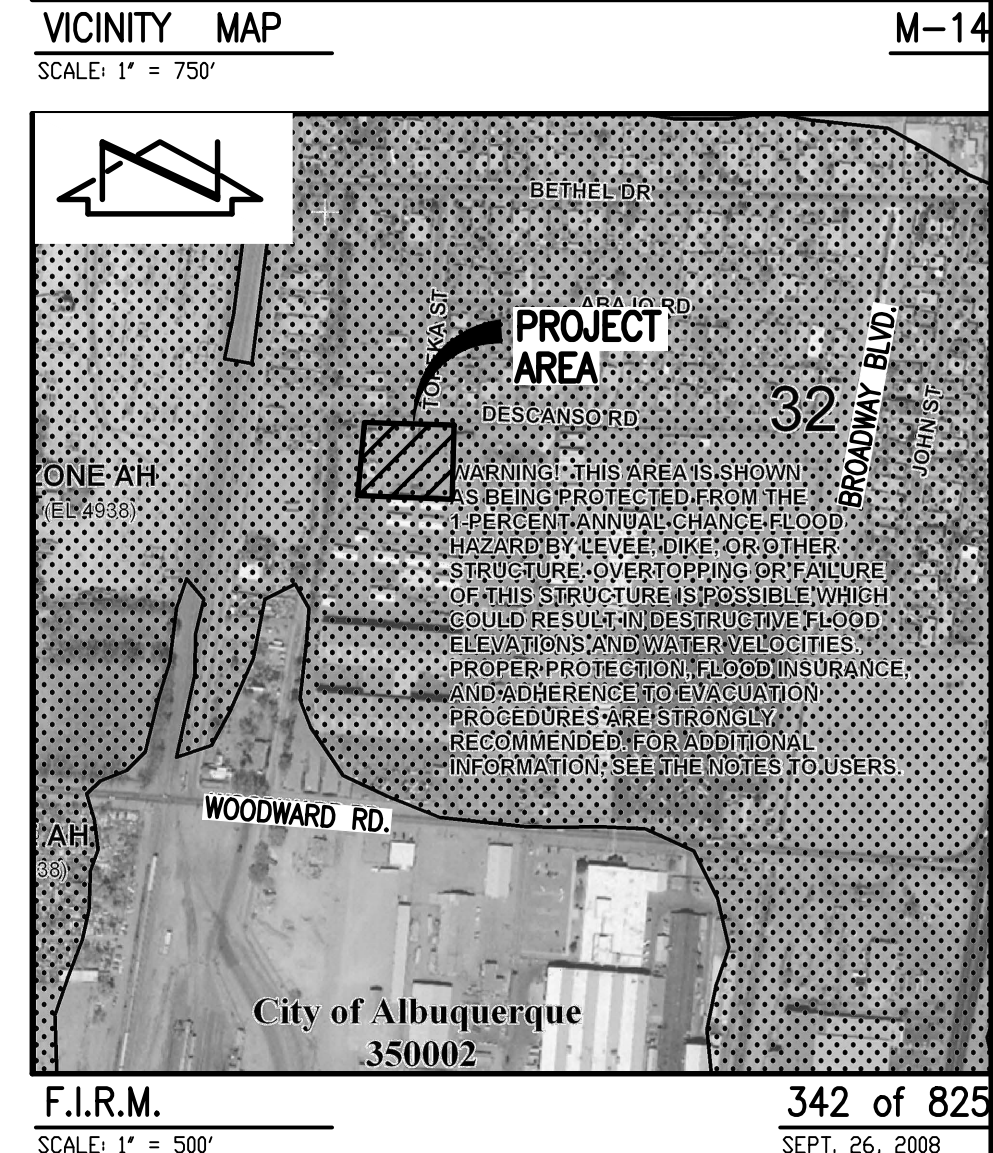
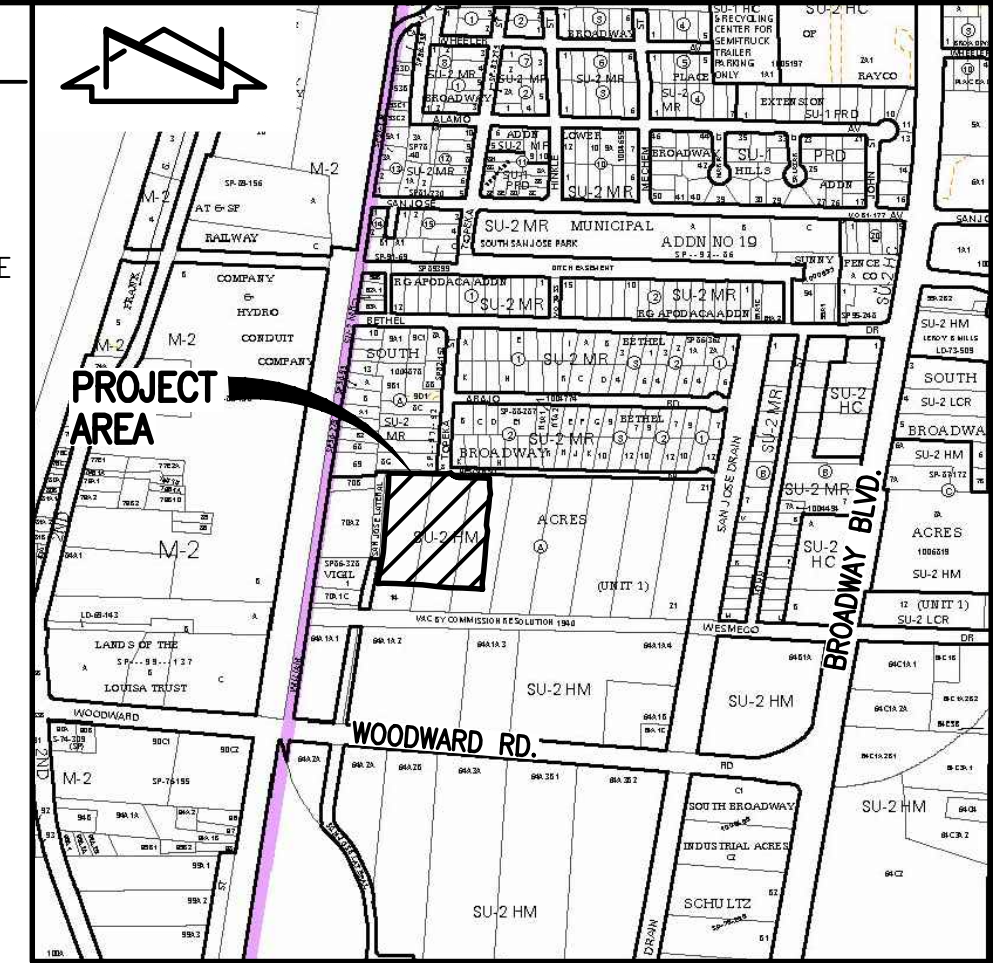


**TRENCH SECTION (A-A)**

SCALE: HORIZ. 1" = 5' - 0"  
 VERT. 1" = 1' - 0"

# DESIGN GRADING LEGEND:

BOH	BUILDING OVERHANG
C&G	STANDARD CURB AND GUTTER
CL	CONCRETE LANDING
CLD	CENTERLINE OF DOOR
CLF	CHAIN LINK FENCE
CLF/BW	CHAIN LINK FENCE WITH BARB WIRE
CMU	CONCRETE MASONRY UNIT WALL
CR	CONCRETE RAMP
CS	CONCRETE STAIRS
CSW	CONCRETE SIDEWALK
DOO	DOUBLE CLEANOUT
EA	EDGE OF ASPHALT
FL	FLOWLINE
GM	GAS METER
GS	GAS SERVICE
PI	PAINTED ISLAND
MHR	METAL HAND RAIL
MS	METAL SIGN
RD	ROOF DRAIN
SAS MH	SANITARY SEWER MANHOLE
SDMH	STORM DRAIN MANHOLE
TA	TOP OF CURB
TC	TOP OF ASPHALT
TCO	TOP OF CONCRETE
WMB	WATER METER BOX
IN	EXISTING DECIDUOUS TREE
TA	INVERT
TC	TOP OF ASPHALT PAVEMENT
TC	TOP OF CURB
TC	TOP OF GRATE
TC	EXISTING SPOT ELEVATION
TC	PROPOSED SPOT ELEVATION
TC	EXISTING FLOWLINE
TC	PROPOSED FLOWLINE
TC	EXISTING CONTOUR
TC	PROPOSED CONTOUR
TC	EXISTING DIRECTION OF FLOW
TC	PROPOSED DIRECTION OF FLOW
TC	SLOPE ARROW
TC	RIGHT OF WAY LINE
TC	PUBLIC EASEMENT LINE
TC	HIGH POINT / DIVIDE
TC	PROPOSED CONCRETE
TC	PROPOSED ASPHALT PAVING
TC	PROPOSED LANDSCAPE AREA



## BENCHMARKS

**PROJECT BENCHMARK FOR 2006 SURVEY (SUBSEQUENTLY DESTROYED)**

ACS 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 13-M14", EPOXIED ON THE TOP OF THE NORTHWEST CORNER OF THE CONCRETE BASE OF A PEDESTRIAN CROSSING SIGNAL STATIONHOUSE ON THE SOUTH SIDE OF WOODWARD ST. S.E. 0.2 MILES WEST OF BROADWAY BLVD.  
 ELEVATION = 4939.94 FEET (NGVD 1929)

## TEMPORARY BENCHMARK #1 (T.B.M.)

A MAG NAIL SET IN ASPHALT EAST OF THE TOPOGRAPHIC SURVEY LIMITS, NOT SHOWN ON THIS SHEET.  
 ELEVATION = 4937.74 FEET (NGVD 1929)

## TEMPORARY BENCHMARK #2 (T.B.M.)

A #5 REBAR FOUND AT THE NORTHERN END OF THE TOPOGRAPHIC SURVEY NEAR A CORNER IN THE CHAIN LINK FENCE, AS SHOWN ON THIS SHEET.  
 ELEVATION = 4937.50 FEET (NGVD 1929)

## CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- 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.
- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE. UTILITY LINES SHOWN ON THIS DRAWING ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE SURVEYOR HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.

## EROSION CONTROL MEASURES:

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (NOI) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
- UNLESS FINAL STABILIZATION IS OTHERWISE PROVIDED FOR, ANY AREAS OF EXCESS DISTURBANCE (TRAFFIC ACCESS, STORAGE YARD, EXCAVATED MATERIAL, ETC.) SHALL BE RE-SEEDING ACCORDING TO C.O.A. SPECIFICATION 1012 "MISCELLANEOUS SEEDING". THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

**NEW MEXICO**  
**13676**  
**PROFESSIONAL ENGINEER**

03/06/2017

2016.063.2

03-2017

1 OF 1

DESIGNED BY	CL.S.
DRAWN BY	J.Y.R./S.C.C.
APPROVED BY	G.M.

NO.	DATE	BY	REVISIONS