

# CITY OF ALBUQUERQUE



May 10, 2016

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

**Re: Sunset Memorial Park New Crematory  
924 Menaul Blvd. NE  
Request Permanent C.O. - Accepted  
Engineer's Stamp dated: 10/8/2015 (H15D016)  
Certification dated: 5-9-16**

Dear Mr. Graeme,

Based on the Certification received 5/9/2016, the site is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, you can contact me at 924-3695 or Totten Elliott at 924-3982.

Albuquerque

Sincerely,

New Mexico 87103

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

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

TE/RH

C: email Clerk,

Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.;  
Lois Blocker

File Path: P:\DATA\2014\0796\ENR\1\ Plot Date: 05-09-2016  
File Name: 140796\_SH1-R1.DWG Plot Time: 12:13 pm

## Drainage Plan

### I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE LOWER NORTHEAST HEIGHTS OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE PROPOSED CONSTRUCTION CONSISTS OF THE REMOVAL AND REPLACEMENT OF AN EXISTING BUILDING WITH A NEW CREMATORY WITHIN AN EXISTING PAVED PORTION OF THE SITE. THE DRAINAGE CONCEPT WILL BE TO ROUTE THE NEW ROOF RUNOFF INTO A LANDSCAPED WATER HARVESTING AREA TO CAPTURE AND TREAT THE FIRST FLUSH. THIS CONCEPT WAS PROPOSED BY THE CURRENT CONCEPTUAL GRADING AND DRAINAGE PLAN DATED 09-01-2015.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT TO BE ISSUED BY THE CITY OF ALBUQUERQUE.

### II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE PROPOSED PROJECT SITE IS LOCATED AT THE NORTHEAST CORNER OF THE OVERALL SITE THAT IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF MENAUL BLVD. NE AND EDITH BLVD. NE. AS SHOWN BY PANEL 332 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, AUGUST 16, 2012, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE, HOWEVER DOES LIE IMMEDIATELY ADJACENT TO A DESIGNATED FLOOD HAZARD ZONE WHERE THE 100-YEAR FLOOD IS CONTAINED IN THE CONSTRUCTED CHANNEL (STREET).

### III. BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

- MASTER DRAINAGE PLAN (MDP) PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY TOM MANN & ASSOCIATES, INC. AND JEFF MORTENSEN & ASSOCIATES, INC.) DATED 04-20-1987 AND PERIODICALLY UPDATED AS REFERENCED ABOVE. THE 03-10-2006 UPDATE SPECIFICALLY ADDRESSED THE URN GARDEN AREA INCLUDING THE CURRENT PROJECT SITE. THE UPDATED MDP PROVIDES THE CONCEPT BASIS FOR SITE DRAINAGE.
- CONCEPTUAL GRADING AND DRAINAGE PLAN FOR SUNSET MEMORIAL PARK PREPARED BY HIGH MESA CONSULTING GROUP DATED 09-10-2015. THIS REFERENCE DRAINAGE SUBMITTAL IDENTIFIES THE DRAINAGE CONCEPT FOR THIS SITE SPECIFIC PROJECT WITHIN THE LARGER OVERALL SITE. THE CONCEPT IDENTIFIED IS TO ROUTE NEW ROOF RUNOFF TO A NEW WATER HARVESTING AREA WITHIN AN EXISTING LANDSCAPED AREA TO CAPTURE AND TREAT THE FIRST FLUSH.
- PARTIAL TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 10-21-2014 AND EXPANDED 08-27-2015. THE SUBJECT SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE SITE AS DEPICTED BY THIS SUBMITTAL.

### IV. EXISTING CONDITIONS

THE PROJECT SITE PRESENTLY CONSISTS OF A DEVELOPED PORTION OF THE SUNSET MEMORIAL PARK CEMETERY. THE PROJECT SITE COMPRISES EXISTING MAINTENANCE AND SUPPORT BUILDINGS, ASPHALT PAVING AND LANDSCAPING. AT PRESENT, THIS PORTION OF THE SITE DRAINS FROM SOUTH TO NORTH TO THE URN GARDEN LOOP ROAD FROM WHENCE RUNOFF FLOWS WEST THROUGH THE EXISTING CEMETERY PROPERTY. THE SITE RUNOFF THAT DRAINS WEST INTERNAL TO THE PARK TRENDS TOWARD EDITH BLVD. NE. AS DESCRIBED IN THE AFOREMENTIONED MASTER DRAINAGE PLAN UPDATE, RUNOFF GENERATED BY THE PARK AND REACHING THE WESTERLY LIMITS IS COLLECTED BY A PRIVATE STORM DRAIN SYSTEM THAT CONNECTS TO THE PUBLIC STORM DRAIN SYSTEM WITHIN EDITH BLVD. NE, THE OUTFALL FOR THE SITE.

THERE ARE NO APPARENT OFFSITE FLOWS IMPACTING THE PROJECT SITE AS THE SITE IS TOPOGRAPHICALLY HIGHER THAN THE ADJACENT PARK IMPROVEMENTS. MORE IMPORTANTLY, THE PROJECT SITE IS INTERNAL TO THE PARK THEREBY PROTECTING IT FROM POTENTIAL OFFSITE FLOWS FROM NEIGHBORING SITES. THE FLOODPLAIN ASSOCIATED WITH MENAUL BLVD. NE IS NOT ONLY TOPOGRAPHICALLY LOWER THAN THE PARK, BUT IS SEPARATED BY A RETAINING WALL ON THE NORTH PROPERTY LINE OF THE PARK AND SIGNIFICANT HORIZONTAL DISTANCE. THE RETAINING WALL ON THE NORTH PROPERTY LINE ALLOWS THE SITE TO BE TOPOGRAPHICALLY HIGHER THAN THE ADJACENT RIGHT-OF-WAY WHERE FLOOD WATERS ARE CONFINED TO THE CONSTRUCTED STREET.

### V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF A NEW CREMATORY BUILDING WITHIN THE SAME FOOTPRINT AS AN EXISTING BUILDING THAT WILL BE DEMOLISHED. A MINOR AMOUNT OF EXISTING ASPHALT PAVING WILL BE REMOVED AND REPLACED. NO ADDITIONAL IMPERVIOUS AREA WILL BE CREATED BY THIS PROJECT. RUNOFF GENERATED BY THE NEW ROOF AREA WILL BE ROUTED VIA GUTTERS AND ROOF DRAINS TO DISCHARGE AT THE NORTHWEST CORNER OF THE NEW BUILDING. THE ROOF RUNOFF WILL DISCHARGE TO A NEW WATER HARVESTING AREA WITHIN AN EXISTING LANDSCAPED AREA WHERE THE RUNOFF WILL BE CONTAINED. THE WATER HARVESTING AREA WHEN FILLED TO CAPACITY, WILL OVERFLOW WEST TO ENTER LOMBARDY DRIVE, AN INTERNAL PRIVATE ROADWAY. FROM THIS POINT, SITE RUNOFF FLOWS WEST INTERNAL TO THE SITE TOWARD EDITH BLVD. NE. AS INDICATED ABOVE, RUNOFF GENERATED BY THE PARK AND REACHING THE WESTERLY LIMITS IS COLLECTED BY A PRIVATE STORM DRAIN SYSTEM THAT CONNECTS TO THE PUBLIC STORM DRAIN SYSTEM WITHIN EDITH BLVD. NE, THE OUTFALL FOR THE SITE. AS THE RESULT OF THE NEW WATER HARVESTING AREA WITH LIMITED RETENTION CAPABILITIES, THE SITE WILL EXPERIENCE A SLIGHT DECREASE IN THE AMOUNT OF DEVELOPED GENERATED AND EXITING THE SITE.

AS IN THE EXISTING CONDITION, THERE ARE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE.

### VI. GRADING PLAN

THE GRADING PLANS SHOW 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 3.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING WILL MAINTAIN THE CURRENT DRAINAGE PATTERN OF DISCHARGE FROM EAST TO WEST WITH RUNOFF STAYING INTERNAL TO THE OVERALL SITE BEFORE OUTFALLING TO EDITH BLVD. NE.

THE GRADING PLAN ALSO IDENTIFIES ONE (1) WATER HARVESTING AREA DEPRESSED TO PROVIDE AN APPROXIMATE 6-INCHES OF STORAGE DEPTH PRIOR TO OVERFLOWING TO ADJACENT PARK IMPROVEMENTS. THE WATER HARVESTING AREA IS DESIGNED TO CAPTURE AND TREAT THE FIRST FLUSH OF RUNOFF FROM THE ROOF AREA OF THE NEW CREMATORY.

### VII. EROSION CONTROL PLAN

THIS PROJECT DISTURBS LESS THAN ONE-ACRE OF LAND. A SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS NOT BEEN PREPARED. THE SMALL SIZE OF THIS PROJECT DOES NOT WARRANT THE PREPARATION OF A SITE SPECIFIC EROSION CONTROL PLAN. IT SHOULD BE NOTED, HOWEVER, THAT ANY SEDIMENT DISCHARGED INTO THE INTERNAL STREETS WITHIN THE PARK WILL BE PROMPTLY REMOVED BY PARK STAFF AS PART OF THEIR DUTIES TO KEEP THE PREMISES CLEAN AND PRESENTABLE AT ALL TIMES.

### VIII. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED PROJECT WILL RESULT IN NO INCREASE IN THE DEVELOPED RUNOFF GENERATED BY THE PROJECT SITE. DEVELOPED RUNOFF FROM THE NEW ROOF AREA WILL BE MITIGATED BY WATER HARVESTING. THE WATER HERVESTING AREA WILL CAPTURE AND TREAT THE FIRST FLUSH OF RUNOFF GENERATED BY THE NEW CREMATORY BUILDING. THE VOLUME OF RUNOFF CAPTURED AND THUS TREATED IS CALCULATED USING THE AVERAGE END AREA METHOD.

### IX. CONCLUSIONS

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

- THIS PROJECT IS CHARACTERIZED AS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA.
- THE PROPOSED IMPROVEMENTS WILL MAINTAIN AND NOT ALTER THE EXISTING DRAINAGE PATTERNS OF THE PROJECT SITE AND THE AFFECTED PORTIONS OF THE EXISTING PARK.
- THE PROPOSED IMPROVEMENTS WILL RESULT IN NO INCREASE IN THE DEVELOPED RUNOFF VOLUME GENERATED BY THE SITE WITH NEW ROOF AREA RUNOFF BEING MITIGATED BY ONSITE WATER HARVESTING DESIGNED TO CAPTURE AND TREAT THE FIRST FLUSH FROM THE NEW BUILDING.
- STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES ARE NOT PROPOSED DURING CONSTRUCTION BECAUSE ROUTINE MAINTENANCE BY PARK STAFF WILL ENSURE THE CLEAN-UP AND REMOVAL ANY SEDIMENT THAT MAY DISCHARGE FROM THE CONSTRUCTION SITE TO DOWNSTREAM PORTIONS OF THE PARK.
- THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS.
- THIS PROJECT IS NOT SUBJECT TO AN EPA NPDES PERMIT; FUTURE PROJECTS MAY TRIGGER THE NEED FOR THE PREPARATION OF A SWPPP AND THE SUBSEQUENT FILING OF AN NPDES PERMIT.

## Calculations

### I. SITE CHARACTERISTICS

A. PRECIPITATION ZONE = 2

B.  $P_{100, 6\text{ HR}} = P_{360} = 2.35$

C. TOTAL PROJECT AREA ( $A_T$ ) = 5,250 SF  
0.12 AC

### D. LAND TREATMENTS

#### 1. EXISTING CONDITION

TREATMENT	AREA (SF/AC)	%
A	0 / 0	0
B	1,220 / 0.03	25
C	0 / 0	0
D	4,030 / 0.09	75

#### 2. DEVELOPED CONDITION

TREATMENT	AREA (SF/AC)	%
A	0 / 0	0
B	1,170 / 0.03	25
C	0 / 0	0
D	4,080 / 0.09	75

### II. HYDROLOGY

#### A. EXISTING CONDITION

##### 1. VOLUME

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) V_A T$$
$$E_w = (0.53^*0.00) + (0.78^*0.03) + (1.13^*0.00) + (2.12^*0.09) 0.12 = 1.79 \text{ IN}$$
$$V_{100, 6 \text{ HR}} = (E_w / 12) A_T = (1.79 / 12) 0.12 = 0.0179 \text{ AC-FT} = 780 \text{ CF}$$

##### 2. PEAK DISCHARGE

$$Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$$
$$Q_p = Q_{100} = (1.56^*0.00) + (2.28^*0.03) + (3.14^*0.00) + (4.70^*0.09) = 0.5 \text{ CFS}$$

#### B. DEVELOPED CONDITION

##### 1. VOLUME

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) V_A T$$
$$E_w = (0.53^*0.00) + (0.78^*0.03) + (1.13^*0.00) + (2.12^*0.09) 0.12 = 1.79 \text{ IN}$$
$$V_{100, 6 \text{ HR}} = (E_w / 12) A_T = (1.79 / 12) 0.12 = 0.0179 \text{ AC-FT} = 780 \text{ CF}$$

##### 2. PEAK DISCHARGE

$$Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$$
$$Q_p = Q_{100} = (1.56^*0.00) + (2.28^*0.03) + (3.14^*0.00) + (4.70^*0.09) = 0.5 \text{ CFS}$$

##### c. FIRST FLUSH (90TH PERCENTILE STORM EVENT)

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) V_A T$$
$$E_w = (0.00^*0.00) + (0.00^*0.03) + (0.09^*0.00) + (0.34^*0.09) 0.12 = 0.26 \text{ IN}$$
$$V_{\text{FIRST FLUSH}} = (E_w / 12) A_T = (0.26 / 12) 0.12 = 0.0026 \text{ AC-FT} = 110 \text{ CF}$$

##### d. WATER HARVESTING AREA CAPACITY (WSL @ 5014.4)

ELEV	AREA	VOLUME	ΣVOLUME
5014	270		
	160		
	<u>160</u>		
5014.4	530		

$$V_{WH} = 160 \text{ CF} > V_{\text{FIRST FLUSH}} = 110 \text{ CF} \therefore \text{OK}$$

#### C. COMPARISON

##### 1. VOLUME

$$\Delta V_{100, 6 \text{ HR}} = 780 - 780 = 0 \text{ CF (NO CHANGE)}$$

##### 2. PEAK DISCHARGE

$$\Delta Q_{100} = 0.5 - 0.5 = 0 \text{ CFS (NO CHANGE)}$$

### NOTE:

ABOVE CALCULATIONS DO NOT TAKE CREDIT FOR WATER HARVESTING.

### ENGINEER'S CERTIFICATION

I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP HEREBY CERTIFY THAT WITH ONE EXCEPTION NOTED BELOW, THE SITE HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED GRADING PLAN DATED 10/08/2015. THIS SUBMITTAL IS MADE TO DOCUMENT THE AS-CONSTRUCTED CONDITION AND TO SUPPORT PERMANENT CERTIFICATE OF OCCUPANCY.

THERE IS ONE NOTED DEVIATION FROM THE APPROVED PLAN FOR WHICH WE REQUEST ACCEPTANCE FOR THE AS-CONSTRUCTED CONDITION; NOT ALL ROOF DRAINAGE WAS ABLE TO BE DIRECTED TO THE WATER QUALITY POND AS DESCRIBED BY THE FOLLOWING:

THE COMPLETED BUILDING IS A PREFABRICATED METAL BUILDING WITH A PITCHED ROOF THAT RESULTS IN THE ROOF DRAINAGE BEING SPLIT SO HALF GOES EAST AND HALF GOES WEST. THERE ARE GUTTERS ON THE WEST AND EAST SIDES WITH DOWNSPOUTS AT THE 4 CORNERS. THREE OF THE 4 DOWNSPOUTS ARE ROUTED TO THE POND, BUT THE CONTRACTOR WAS NOT ABLE TO GUTTER THE SOUTHEAST ROOF DRAIN TO THE WEST ACROSS THE BUILDING DOORS ON THE SOUTH SIDE. AS A RESULT, APPROXIMATELY 25% OF THE BUILDING RUNOFF DISCHARGES ONTO THE PAVEMENT ON THE EAST SIDE OF THE BUILDING AND FLOWS TO THE NORTH IN THE HISTORIC FLOW PATH, AND WAS NOT PHYSICALLY ABLE TO BE ROUTED TO THE POND.

THE RECORD SURVEY INFORMATION EDITED ONTO THE APPROVED PLAN IS FROM A POST-CONSTRUCTION DRAINAGE VERIFICATION SURVEY CONDUCTED 05/06/2016 UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA, JR., NMPS 11184, ALSO OF THE FIRM HIGH MESA CONSULTING GROUP. I FURTHER CERTIFY THAT I PERSONALLY VISITED THE PROJECT SITE 05/06/2016 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE DATA PROVIDED APPEARS TO BE REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THE RECORD INFORMATION PRESENTED HEREIN IS NOT NECESSARILY COMPLETE, AND DOES NOT ADDRESS COMPLIANCE WITH A.D.A. GUIDELINES, AND IS INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE 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.

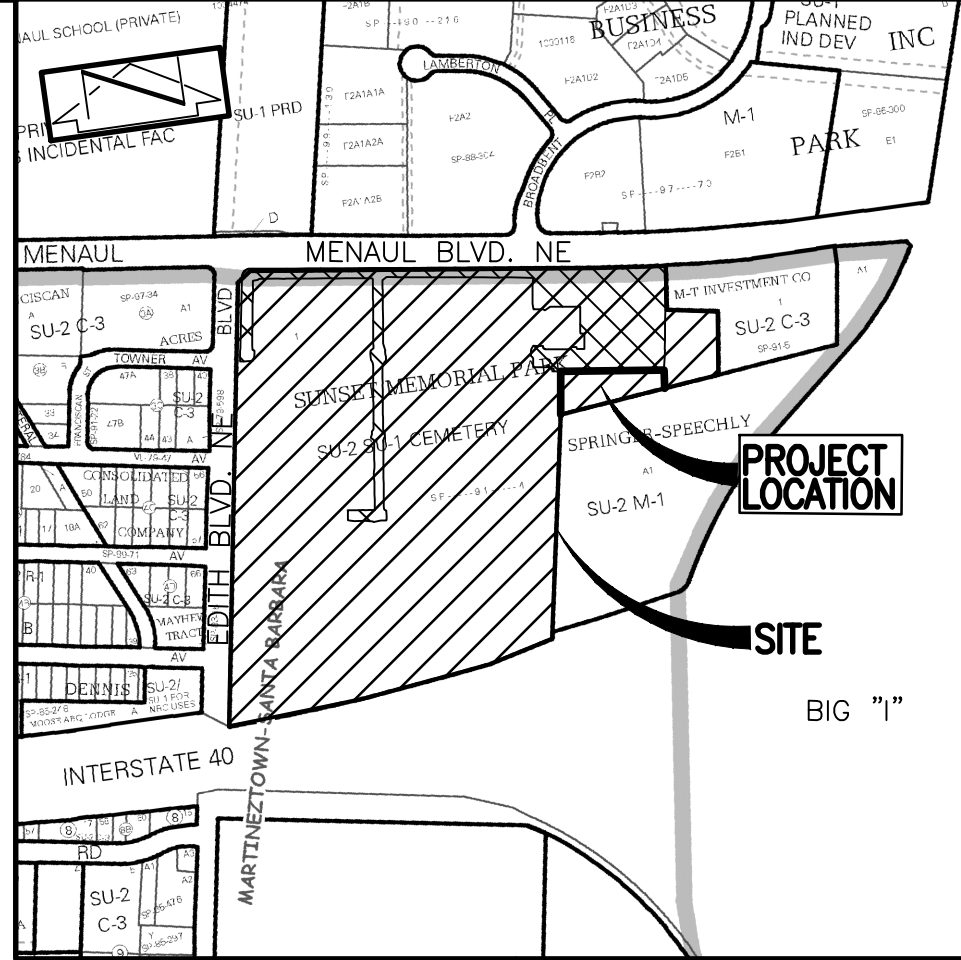
*J. Graeme Means*  
J. GRAEME MEANS, NMPE 13676



DATE  
05/09/2016

## Legend

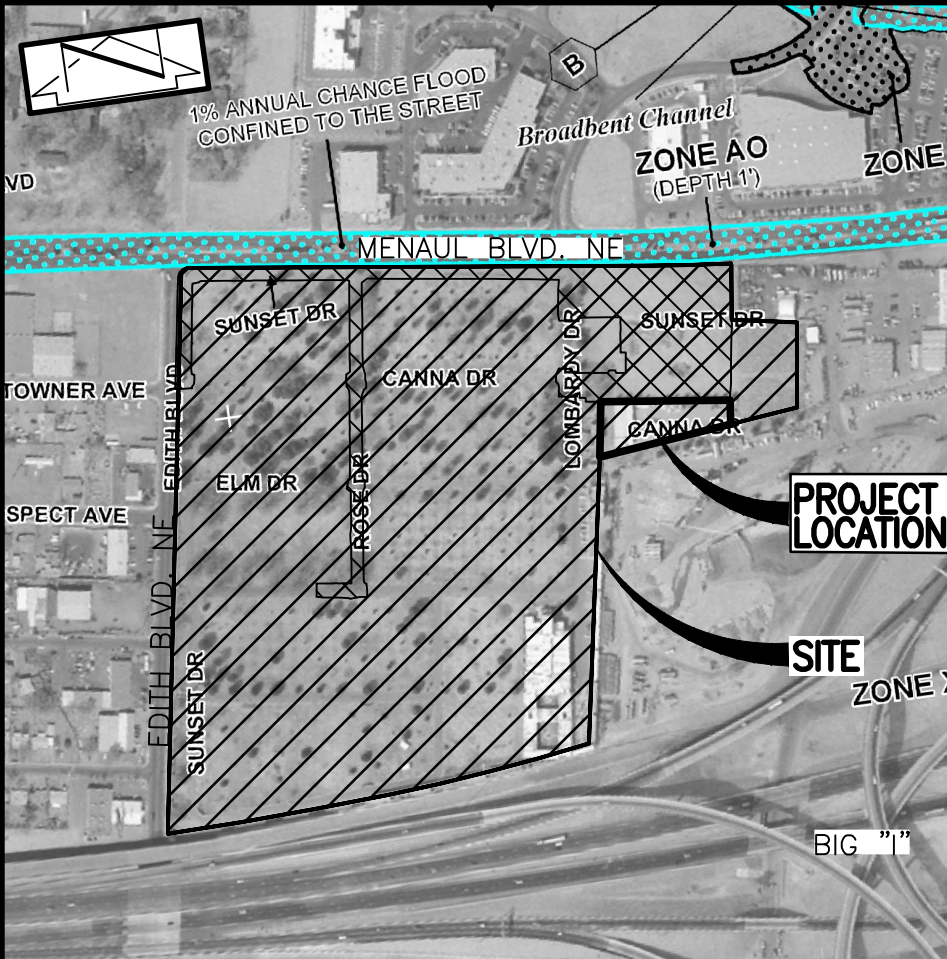
AP	ASPHALT PAVEMENT
ASG	AUTOMATIC SLIDE GATE
ASPH	ASPHALT
BOH	BUILDING/ROOF OVERHANG
C&G	CURB AND GUTTER
C/PM	COMMUNICATION LINE BY PAINT MARK
CAL	UNDERGROUND COMPRESSED AIR LINE
CB	CONCRETE BENCH
CCND	COMMUNICATION CONDUIT
CHC	CONCRETE HEADER CURB
CLD	CENTERLINE DOOR
CLDD	CENTERLINE DOUBLE DOOR
CLF	CHAIN LINK FENCE
CMU	CONCRETE MASONRY WALL
CND	ELECTRIC CONDUIT
CO	CLEANOUT
CONC	CONCRETE
CR	CONCRETE RISER
CS	CONCRETE STEPS
CSW	CONCRETE SIDEWALK
CVP	COMMUNICATION VAULT PANEL
DBL	DOUBLE
DCO	DOUBLE CLEANOUT
E/PM	ELECTRIC LINE BY PAINT MARK
EA	EDGE OF ASPHALT
ECAB	ELECTRIC CABINET
EM	ELECTRIC METER
EO	ELECTRIC OUTLET
EP	ELECTRIC PANEL
FI	FIRE HYDRANT
FL	FLOWLINE
G/PM	GAS LINE BY PAINT MARK
GA	GATE
GEN	GENERATOR
GM	GAS METER
GP	GATE POST FOR SLIDING GATE
GRV	GRAVEL
GS	GAS SERVICE
GM	GAS MOTOR
CVB	GAS VALVE BOX (GAS ANODE)
CW	GUY WIRE ANCHOR
ICT	IRRIGATION CONTROL TIMER
IVB	IRRIGATION VALVE BOX
KEY	AUTOMATIC GATE KEY PAD
KSW	KEYSTONE BLOCK WALL
MB	MAILBOX
MBC	METAL BUILDING COLUMN
MT	METAL TABLE ON CONCRETE
OHE(2)	OVERHEAD ELECTRIC (# OF LINES)
PVC	POLYVINYL CHLORIDE PIPE
W/P	W/ROLL UP GARAGE DOOR
ROLL	ROLL UP GARAGE DOOR
RW	CONCRETE BLOCK RETAINING WALL
SAS/PM	SANITARY SEWER LINE BY PAINT MARK
SGP	STEEL GUARD POST
SLIDE	SLIDING GARAGE DOOR
TCO	TOP OF CONCRETE
TW	TOP OF WALL
W/PM	WATER LINE BY PAINT MARK
WCO	WATER VALVE IN CLEANOUT
WDF	WOOD FENCE
WF	WATER FAUCET
WH	WALL W/PEEP HOLE
WL	WATER LINE
WMB	WATER METER BOX
WMH	WATER MANHOLE WITH PUMP
WFP	WOOD POWER POLE
WPT	WOOD PICNIC TABLE
WRS	WATER SEPARATOR VAULT
WVB	WATER VALVE BOX
WW	WATER MANHOLE WITH FILTER TANK
1.0' Ø	TREE TRUNK DIAMETER
	DECIDUOUS TREE
	SMALL DECIDUOUS TREE
	CONIFEROUS TREE
	YUCCA/CACTUS
	PAINTED UTILITY MARK
	INVERT
	TOP OF ASPHALT PAVEMENT
	TOP OF CURB
	TOP OF GRATE
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	EXISTING FLOWLINE
	PROPOSED FLOWLINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING DIRECTION OF FLOW
	PROPOSED DIRECTION OF FLOW
	RIGHT OF WAY LINE
	PUBLIC EASEMENT LINE
	HIGH POINT / DIVIDE
	PROPOSED CONCRETE
	PROPOSED ASPHALT PAVING



## VICINITY MAP

SCALE: 1" = 750'

## H-15



## F.I.R.M.

SCALE: 1" = 500'

## PANEL 332 OF 825

DATE 09-26-2008

## LEGAL DESCRIPTION

TRACT 1, SUNSET MEMORIAL PARK, ALBUQUERQUE, NEW MEXICO

## BENCHMARKS

## PROJECT BENCHMARK

AN A.G.R.S. 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 11-H15" EPOXIED ON TOP OF CONCRETE CURB RETURN, AT THE ENE QUADRANT OF THE INTERSECTION OF MENAUL BOULEVARD AND BROADBENT PARKWAY N.E.  
ELEVATION = 5015.50 FEET (NAVD 1988)

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

A MAG NAIL WITH WASHER SET IN ASPHALT PAVEMENT, AS SHOWN ON SHEET 2.  
ELEVATION = 5015.69 FEET (NAVD 1988)



cpa studio, llc  
456 s broadway st  
suite 200  
denver, co 80209  
303 683 5917  
(fax) 303 683 5958  
866.733.2772

CAMINO ENCANTADO, PLAZA ESPERANZA  
AND PUEBLO @ SUNSET MEMORIAL PARK  
ALBUQUERQUE, NEW MEXICO

SCALE:  
DRAWN BY: J.Y.R.  
CHECKED BY: J.G.M.  
PROJECT N: 2014.079.6  
DATE/ISSUE: 09-2015

SHEET NUMBER:

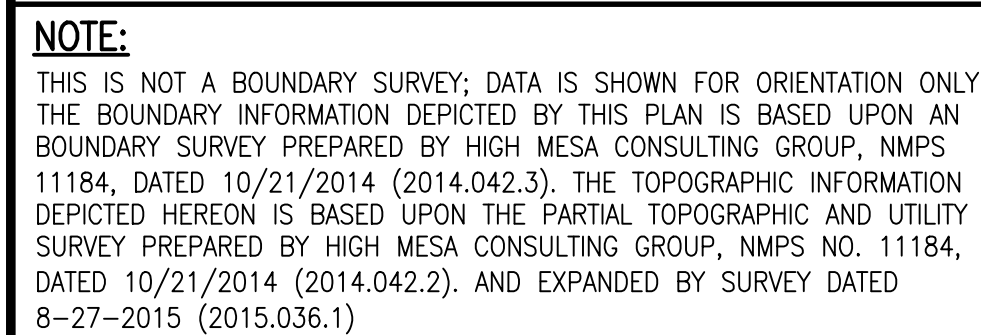
SHEET 1 OF 2



6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109  
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

## DRAINAGE PLAN AND CALCULATIONS NEW CREMATORY SUNSET MEMORIAL PARK

DESIGNED BY	DATE	BY	REVISIONS
J.G.M.	5/16	G.M.	RECORD DRAWING AND CERTIFICATION
DRAWN BY	J.Y.R./S.C.C.		
APPROVED BY	J.G.M.		




6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109  
PHONE: 505.345.4250 • FAX: 505.345.4254 • [www.highmesacq.com](http://www.highmesacq.com)

**RECORD DRAWING**  
FOR CERTIFICATION, SEE SHEET 1

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
2. 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.
3. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.



DESIGNED BY	J.G.M.	NO.	DATE	BY	REVISIONS	SHEET NUMBER:
			5/16	G.M.	RECORD DRAWING AND CERTIFICATION	
DRAWN BY	J.Y.R./S.C.C.					
APPROVED BY	J.G.M.					
						SHEET 2 OF 4



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **City Drainage #:** \_\_\_\_\_

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

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

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

**Engineering Firm:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

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

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

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

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

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

**Architect:** \_\_\_\_\_ **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) \_\_\_\_\_

**CHECK 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: \_\_\_\_\_