

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
2. 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.
3. 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.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY 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 ENGINEER 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 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 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.

EROSION CONTROL MEASURES:

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.

LEGAL DESCRIPTION

A TRACT OF LAND LOCATED WITHIN THE CORPORATE LIMITS OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, LOCATED WITHIN PROJECTED SECTION 3, TOWNSHIP 9 NORTH, RANGE 2 EAST N.M.P.M.

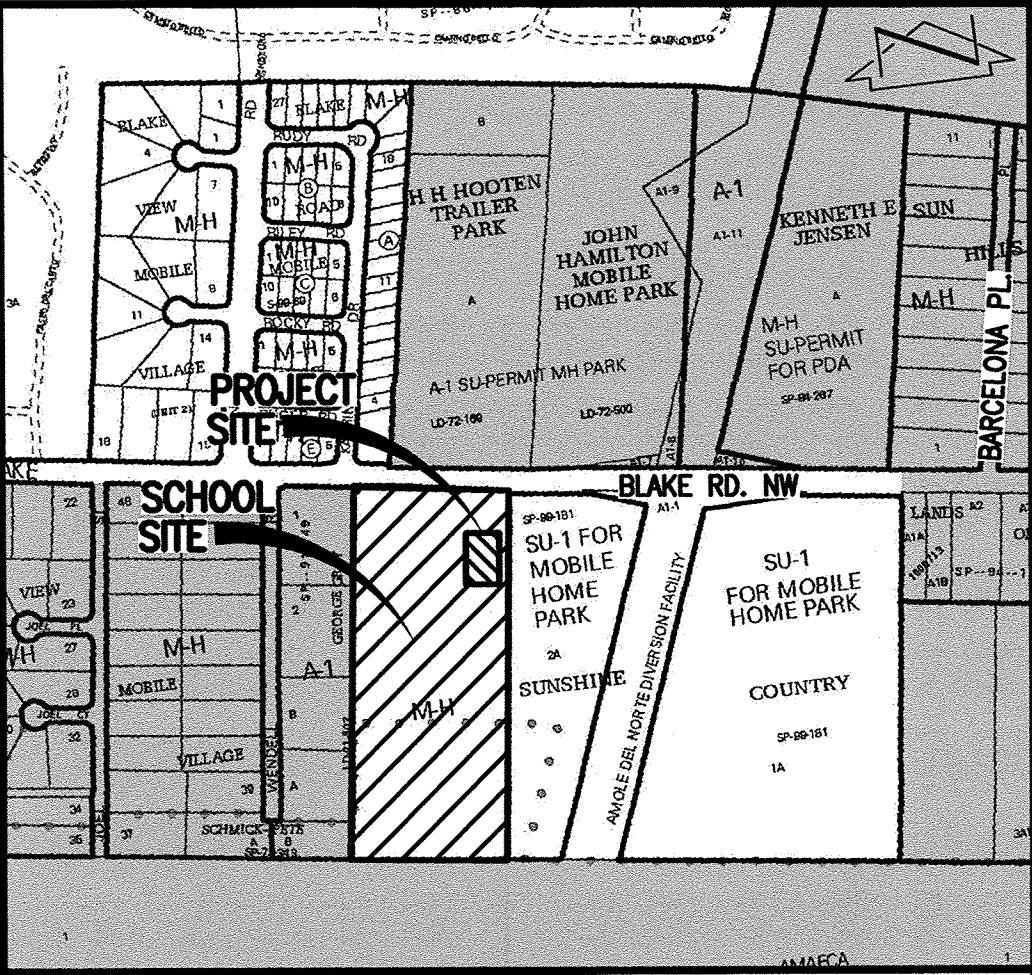
BENCHMARKS

PROJECT BENCHMARK

ACS 3 1/4" ALUMINUM DISC STAMPED, "4-N10 2002", SET INTO A CONCRETE POST 0.2 FEET ABOVE GROUND, IN THE SOUTHEAST QUADRANT OF BLAKE RD. NW AND AMOLE DEL NORTE CHANNEL. ELEVATION = 5003.719 FEET (NAVD 1988)

T.B.M. #1

A CHISELED SQUARE ON TOP OF CURB, AS SHOWN ON SHEETS 2 AND 5. ELEVATION = 5006.44 (NAVD 88)



VICINITY MAP

SCALE: 1" = 750'±

N-10



F.I.R.M.

SCALE: 1" = 500'±

PANEL 336 OF 825

09-26-2008

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HIGH MESA Consulting Group

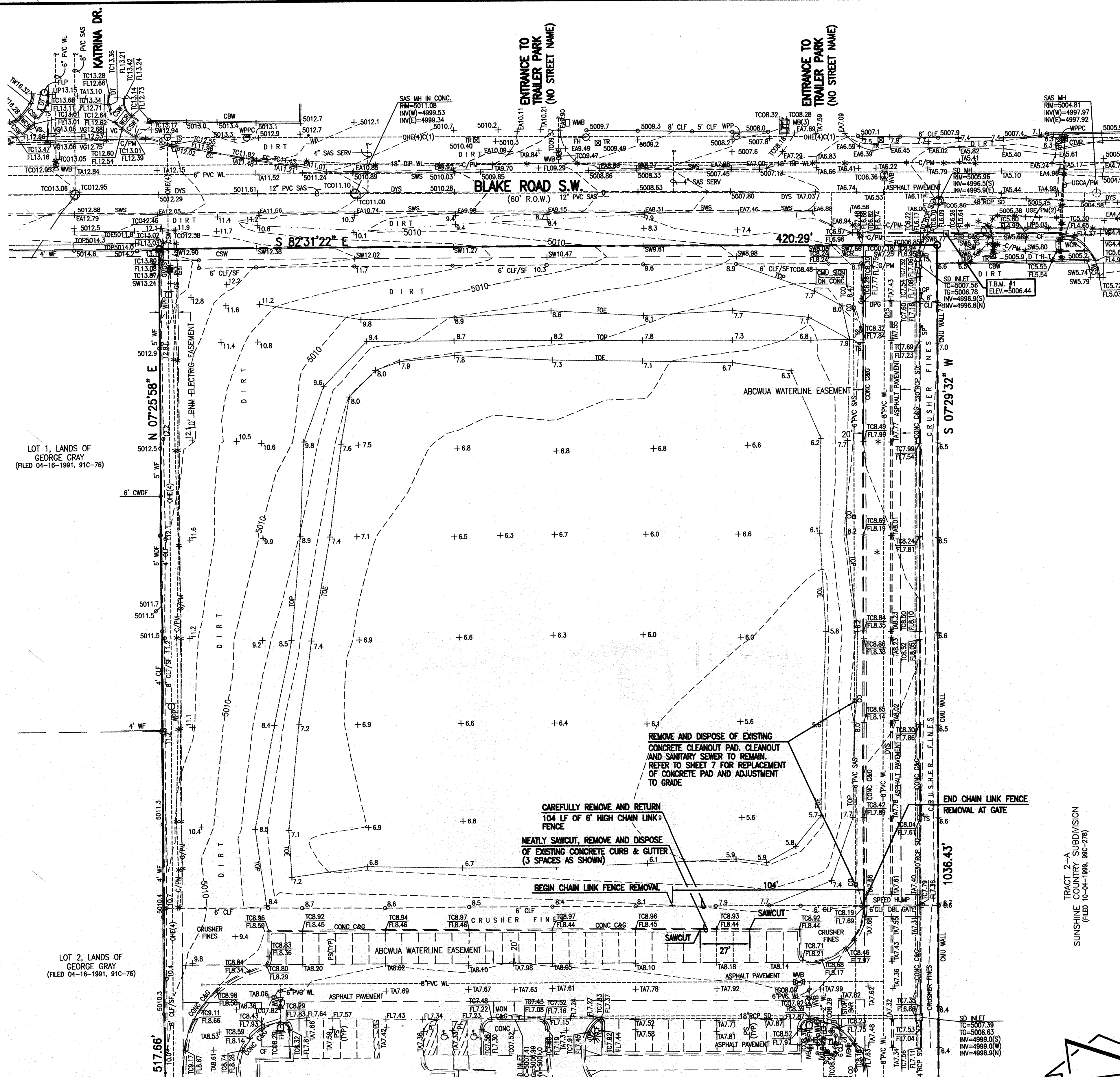
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**SUPPLEMENTAL SITE AND DRAINAGE INFORMATION
PORTABLE CLASSROOM INSTALLATIONS
RFK CHARTER MIDDLE SCHOOL
4300 BLAKE ROAD SW**

DESIGNED BY	J.G.M./G.M.	NO.	DATE	BY	REVISIONS	JOB NO.	2012.181.6
DRAWN BY	G.M.					DATE	03-2013
APPROVED BY	J.G.M.					SHEET	1 OF 1

LEGEND

3-S	THREE STRAND
AP	ASPHALT PAVEMENT
AT	ASPHALT TRAIL
C	COMMUNICATION
C/PM	COMMUNICATION LINE BY PAINT MARK
C&G	CURB AND GUTTER
CBW	CINDER BLOCK WALL
CBW/5' CLF	CINDER BLOCK WALL WITH 5' CHAIN LINK FENCE ON TOP
CC	CONCRETE CHANNEL
CDP	CONCRETE DRIVEPAD
CDW	CONCRETE DRIVEWAY
CF	CRUSHER FINES
CHC	CONCRETE HEADER CURB
CLF	CHAIN LINK FENCE
CLF/SF	CHAIN LINK FENCE WITH SILT FENCE AT BASE
CLTC	CENTERLINE OF TOP OF CURB
CLTG	CENTERLINE OF TOP OF GRATE
CNU	CONCRETE MASONRY UNIT
CO	ELECTRIC CONDUIT
CO	CLEANOUT
CONC	CONCRETE
COW	CONCRETE CUT-OFF WALL
CR	CONCRETE RAMP
CSW	CONCRETE SIDEWALK
CTR	CABLE TELEVISION RISER
CV	COMMUNICATION VAULT
CW	CONCRETE WALL
CWDF	CINDER BLOCK/WOOD FENCE
DBL	DOUBLE
DCP	DIRT AND CONCRETE PILE
DIP	DUCTILE IRON PIPE
DP	DIRT PILE
DPG	DOUBLE PIPE GATE
DT	DIRT
DYS	DOUBLE YELLOW STRIPE
EA	EDGE OF ASPHALT
EC	EXTRUDED CURB
ECW	END OF CONCRETE WALL
EM	ELECTRIC METER
FH	FIRE HYDRANT
FL	FLOW LINE
FLP	FIBERGLASS LIGHT POLE
C/PM	GAS LINE BY PAINT MARK
GA	GUY ANCHOR
GM	GAS METER
GP	GATE POST
GR	GUARD RAIL
GS	GAS SERVICE
INV	INVERT
IRV	IRRIGATION VALVE BOX
LIP	LIP OF CURB
MB	COMMUNITY MAIL BOX ON CONCRETE PAD
MH	MAN HOLE
MLP	METAL LIGHT POLE
MON C&G	MONTABLE CURB AND GUTTER
OHE(4)	OVERHEAD ELECTRIC LINE (# OF LINES)
OW	OPENING IN WALL (1.3'x1.0'H)
PG	PIPE GATE
PI	PAINTED PARKING LOT ISLAND
PL	PLANTER
PR	PAIR
PS	PAINTED PARKING STRIPE
PVC	POLYVINYL CHLORIDE PIPE
PWF	PWF/WIRE FENCE
RCP	REINFORCED CONCRETE PIPE
SAS	SANITARY SEWER
SCT	SPRINKLER CONTROL TIMER
SD	STORM DRAIN
SERV	SERVICE
SOP	STEEL GUARD POST
SI	STORM INLET
SP	STEEL POST
STD	STANDARD
SW	SIDEWALK
SWS	SINGLE WHITE STRIPE
T	TELEPHONE LINE
TC	TOP OF CURB
TCAB	TELEPHONE CABINET
TCO	TOP OF CONCRETE
TO	TOP OF GRATE
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TR	TELEPHONE RISER
TS	TRAFFIC SIGN
TYP	TYPICAL
UGCA/PM	UNDERGROUND CABLE TELEVISION BY PAINT MARK
UGE/PM	UNDERGROUND ELECTRIC LINE BY PAINT MARK
UCT/PM	UNDERGROUND TELEPHONE LINE BY PAINT MARK
VG	CONCRETE VALLEY GUTTER
WBMGR	CONCRETE WALL, BRIDGE, AND METAL GUARD RAIL
WCLF	WIRE AND CHAIN LINK FENCE
WCR	CONCRETE WHEEL CHAIR RAMP
WDF	WOOD FENCE
WF	WIRE FENCE
WHB	WATER HOT BOX
WIG	WROUGHT IRON GATE
WL	WATER LINE
WMB	WATER METER BOX
WP	WOOD POLE
WPP	WOOD POWER POLE
WPPC	WOOD POWER POLE WITH CONDUIT
WVB	WATER VALVE BOX
☼	CONIFEROUS TREE
☼	DECIDUOUS TREE
○	SHRUB
*	PAINTED UTILITY MARKER



DESIGN SURVEY NOTE:

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HIGH MESA Consulting Group

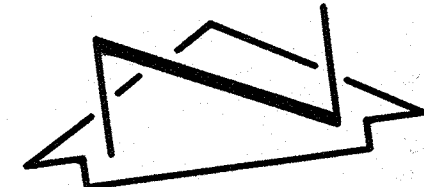
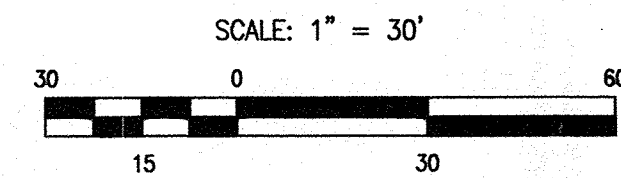
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RFK CHARTER HIGH SCHOOL

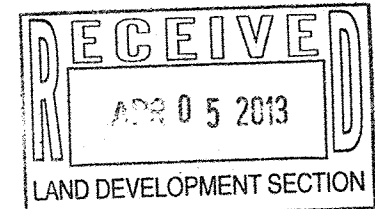
EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 30'

EXISTING CONDITIONS AND DEMOLITION PLAN RFK CHARTER MIDDLE SCHOOL 4300 BLAKE ROAD SW



TRACT 2-A
SUNSHINE COUNTRY SUBDIVISION
(FILED 0-04-1989, 89C-278)



04-04-2013

DESIGNED BY	DATE	BY	REVISIONS	JOB NO.
J.G.M./G.M.				2012.181.6
DRAWN BY	DATE	BY		
J.Y.R./E.J.S.				03-2013
APPROVED BY	DATE	BY		
J.G.M.				2 OF 11

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File Name: 121816_SH5.DWG Plot Time: 12:45 pm

A1 GRADING PLAN
SCALE: 1" = 30'

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GRADING PLAN
RFK CHARTER MIDDLE SCHOOL
4300 BLAKE ROAD SW

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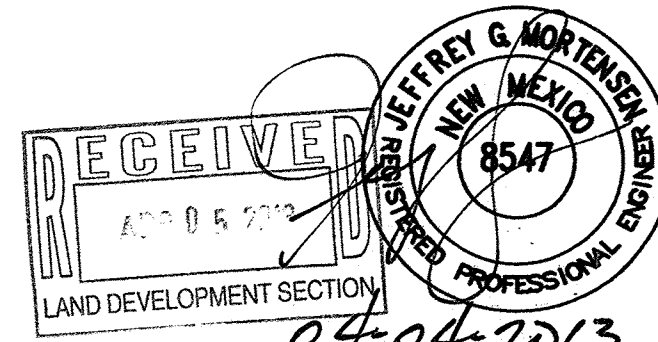
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DESIGN GRADING LEGEND:

INV	INVERT
TA	TOP OF ASPHALT PAVEMENT
TC	TOP OF CURB
TG	TOP OF GRATE
+ 08.04	EXISTING SPOT ELEVATION
● 08.85	PROPOSED SPOT ELEVATION
— — —	EXISTING FLOWLINE
— — —	PROPOSED FLOWLINE
-5010-	EXISTING CONTOUR
-08-	PROPOSED CONTOUR
— — —	EXISTING DIRECTION OF FLOW
— — —	PROPOSED DIRECTION OF FLOW
— — —	PUBLIC EASEMENT LINE
— — —	BASIN BOUNDARY
— — —	HIGH POINT / DVIDE
— — —	PROPOSED CONCRETE
— — —	PROPOSED ASPHALT PAVING
— — —	PROPOSED 3/4" CRUSHED GRAVEL (SANTA FE BROWN)

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JGM/GM				2012.181.6
DRAWN BY	DATE	BY	REVISIONS	DATE
JYR/EJS				03-2013
APPROVED BY	DATE	BY	REVISIONS	SHEET
JGM				5 OF 11

DRAINAGE PLAN

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN SOUTHWEST ALBUQUERQUE, IS A PROPOSED PORTABLE BUILDING CAMPUS TO BE DEVELOPED BY ALBUQUERQUE PUBLIC SCHOOLS (APS) FOR THE CONSTRUCTION OF THE NEW ROBERT F. KENNEDY (RFK) CHARTER MIDDLE SCHOOL. APS OWNS THE 10 ACRE PROPERTY AND THE SOUTHERNMOST 6.6 ACRES WERE DEVELOPED IN 2009 BY APS FOR THE RFK CHARTER HIGH SCHOOL CAMPUS, ALSO A PORTABLE BUILDING CAMPUS. THE INITIAL DEVELOPMENT BY APS ANTICIPATED AND PLANNED FOR FUTURE DEVELOPMENT ON THE NORTHERN 3.4 ACRES AND CONSTRUCTED PUBLIC AND PRIVATE INFRASTRUCTURE TO SUPPORT FUTURE CONSTRUCTION. IN ACCORDANCE WITH THE PROVISIONS OF THE 2009 GRADING PLAN FOR THE SITE, DEVELOPED RUNOFF WILL BE DIRECTED TO AN EXISTING INTERNAL PRIVATE STORM DRAIN SYSTEM THAT IS SIZED FOR DEVELOPED RUNOFF AND THAT DISCHARGES TO AN EXISTING PUBLIC CITY OF ALBUQUERQUE 48" INCH STORM DRAIN IN BLAKE RD SW. THE PROPOSED PORTABLE MIDDLE SCHOOL CAMPUS WILL OCCUPY LESS THAN 0.6 ACRES OF THE UNDEVELOPED NORTHERN PORTION OF THE SITE, WITH THE REMAINDER OF THE NORTHERN PORTION BEING RESERVED FOR FUTURE DEVELOPMENT OF A PERMANENT BUILDING WITH ASSOCIATED FIELDS AND SITE AMENITIES.

AS DESCRIBED BY THE OVERALL DRAINAGE PLAN THAT SUPPORTED THE INITIAL CONSTRUCTION AND PLANNED FOR SUBSEQUENT DEVELOPMENT, MINOR OFFSITE FLOWS MINIMALLY IMPACT THE SITE FROM THE RURALLY DEVELOPED COUNTY A-1 LOTS TO THE WEST WHICH LIE TOPOGRAPHICALLY HIGHER THAN THE SITE. OFFSITE FLOWS DO NOT IMPACT THE SITE FROM THE LANDS TO THE EAST OR SOUTH WHICH LIE TOPOGRAPHICALLY LOWER THAN THE SITE. THE PUBLIC RIGHT-OF-WAY TO THE NORTH EXHIBITS PARALLEL TOPOGRAPHY WITH EXISTING STREET FLOWS CONTAINED BY A ROADSIDE DITCH AND PROPERTY LINE BERM.

THE SITE LIES IMMEDIATELY NORTH OF THE AMOLE DETENTION AREA AND LIES AT THE "BOTTOM" OF THE WATERSHED DRAINING TO THIS AMAFCA FACILITY. THE SITE CURRENTLY DRAINS VIA THE AFOREMENTIONED PRIVATE INTERNAL STORM DRAIN TO A PUBLIC (CITY OF ALBUQUERQUE) STORM DRAIN IN BLAKE RD SE THAT OUTLETS TO THE AMOLE DETENTION AREA VIA THE CITY'S AMOLE DEL NORTE (ADN) DIVERSION CHANNEL. THERE IS NO GRADING, CONSTRUCTION, OR DIRECT DISCHARGE PROPOSED TO AMAFCA RIGHT-OF-WAY.

THERE IS NO PLATTING, NO INFRASTRUCTURE LIST, NO SITE DEVELOPMENT PLAN, AND THEREFORE NO REQUIRED PUBLIC INFRASTRUCTURE PROPOSED AS PART OF THIS PROJECT. THIS SUBMITTAL IS MADE TO SUPPORT GRADING AND PAVING PERMIT APPROVALS WITHIN THE JURISDICTION OF THE CITY OF ALBUQUERQUE. THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF THE SITE AND THEREFORE DOES NOT REQUIRE A SEDIMENT AND EROSION CONTROL PLAN SUBMITTAL.

II. PROJECT DESCRIPTION:

AS SHOWN BY VICINITY MAP N-10 HEREON, THE UNPLATTED 10 ACRE SITE IS LOCATED AT 4300 BLAKE RD SW, ON THE SOUTH SIDE OF BLAKE RD SW BETWEEN COORS BLVD SW AND UNSER BLVD SW. THE SITE LIES WITHIN THE MUNICIPAL LIMITS OF THE CITY OF ALBUQUERQUE. AS SHOWN BY PANEL 336 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS, BERNALILLO COUNTY, NEW MEXICO, AND INCORPORATED AREAS, DATED SEPTEMBER 26, 2008 SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. THE SITE DRAINS TO A FLOOD HAZARD ZONE DESIGNATED AE (EL 5000 NGVD '88) THAT IS CONFINED WITHIN THE AMOLE DETENTION AREA TO THE SOUTH.

III. BACKGROUND DOCUMENTS

THE FOLLOWING WERE USED IN THE PREPARATION OF THIS SUBMITTAL:

A. GRADING AND DRAINAGE PLAN FOR RFK CHARTER HIGH SCHOOL, CITY HYDROLOGY FILE N-10/D6 PREPARED BY HIGH MESA CONSULTING GROUP (HMC) ENGINEER'S STAMP DATED 04/16/2009 (GRAEME MEANS, NMPE 13676). THIS PLAN SUPPORTED THE INITIAL DEVELOPMENT BY APS OF A PORTABLE BUILDING HIGH SCHOOL CAMPUS AT THIS SITE. THIS PLAN IDENTIFIED FUTURE DEVELOPMENT OF THE SITE BY APS AND THE HYDROLOGIC AND HYDRAULIC CALCULATIONS ASSUMED FULL BUILD-OUT. THIS REPORT ESTABLISHED THAT EXISTING PRIVATE STORM DRAINAGE INFRASTRUCTURE AND DOWNSTREAM PUBLIC INFRASTRUCTURE WERE SIZED FOR AND HAVE ADEQUATE CAPACITY FOR SUBSEQUENT DEVELOPMENT AS IS NOW PROPOSED HEREIN.

B. PARTIAL TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (NMPS 11184) DATED 03-21-2011. THIS REFERENCED SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE.

IV. EXISTING CONDITIONS:

THE SOUTHERLY 6.6 ACRE PORTION (EXISTING BASIN "A") OF THE SITE IS DEVELOPED AS PORTABLE BUILDING HIGH SCHOOL CAMPUS. THE NORTHERLY 3.4 ACRE PORTION (BASIN "B") OF THE SITE IS UNDEVELOPED AND WAS CLEARED AND ROUGH GRADED FOR BORROW PURPOSES AND IN ANTICIPATION OF FUTURE DEVELOPMENT.

THE MAJORITY OF THE HIGH SCHOOL CAMPUS WITHIN BASIN A WAS GRADED TO A RELATIVELY LEVEL CONDITION WITH NUMEROUS SUBTLE HIGH AND LOW POINTS THAT DIRECT RUNOFF TO AN EXISTING PRIVATE INTERNAL STORM DRAIN SYSTEM THAT DISCHARGES TO THE EXISTING PUBLIC 48" RCP STORM DRAIN IN BLAKE ROAD SW.

THE CITY PROPERTY TO THE EAST IS DEVELOPED AS A MOBILE HOME PARK. THE COUNTY PROPERTIES TO THE WEST LIE TOPOGRAPHICALLY HIGHER THAN THE SITE AND ARE RURALLY DEVELOPED CONSISTENT WITH THEIR A-1 ZONING. BLAKE ROAD SW FRONTS THE SITE TO THE NORTH AND IS PAVED WITH BAR DITCHES IN THE SITE FRONTAGE. BLAKE IS DEVELOPED WITH CURB AND GUTTER AND HALF-WIDTH (NORTH SIDE) PAVEMENT WEST OF THE SITE, AND WITH CURB AND GUTTER AND HALF-WIDTH PAVEMENT EAST OF THE SITE. A PUBLIC CITY 48" STORM DRAIN EXISTS IN BLAKE EAST OF THE SITE WITH ITS UPSTREAM TERMINUS (CAP) AT THE NE CORNER OF THE APS SITE. THIS STORM DRAIN, CONSTRUCTED IN 2004 UNDER CPN 643782, OUTLETS DIRECTLY TO THE CITY'S AMOLE DEL NORTE DIVERSION CHANNEL WHICH THEN OUTFALLS DIRECTLY TO THE AMOLE DETENTION AREA.

V. DEVELOPED CONDITIONS

AS SHOWN ON THE GRADING PLAN (SHEET 5), THE PROPOSED DEVELOPMENT WILL INCLUDE SIX (6) NEW PORTABLE BUILDINGS WITH ASSOCIATED PAVING AND STRATEGICALLY LOCATED STRIPS OF GRAVEL INTENDED TO CAPTURE NUISANCE RUNOFF AND PROTECT THE UNPAVED AREAS FROM EROSION. THE SE CORNER OF BASIN B WILL BE FILLED TO ALLOW SHEET FLOW DRAINAGE ON THE PAVED SURFACE FROM WEST TO EAST AT 1%. THE RUNOFF WILL DRAIN TO THE EXISTING PRIVATE ROADWAY WHERE IT WILL FLOW WITHIN THE ROADWAY TO THE PRIVATE STORM DRAIN SYSTEM AND OUT TO BLAKE.

AS DEMONSTRATED BY THE AFOREMENTIONED DRAINAGE PLAN FOR THE INITIAL SITE DEVELOPMENT, THE 30" PRIVATE INTERNAL STORM DRAIN AND THE PUBLIC STORM DRAIN IN BLAKE HAVE SUFFICIENT CAPACITY TO CONVEY THE OVERALL FULLY DEVELOPED RUNOFF FROM BOTH BASINS (39.7 CFS) UNDER GRAVITY CONDITIONS. IN THE EVENT OF COMPLETE FAILURE DUE TO CLOGGING OR BACKUP, A SPILLWAY WAS PROVIDED TO RELEASE TO AN EASEMENT THROUGH THE MOBILE HOME PARK TO THE EAST THAT IS THE HISTORIC OUTFALL FOR THE SITE.

THE PROPOSED IMPROVEMENTS WILL HAVE A MINIMUM ELEVATION OF 5008.40 (NAVD '88) WHICH EXCEEDS THE REQUIRED MINIMUM ELEVATION OF 5005.6 ESTABLISHED FOR THIS SECTION OF THE SITE UNDER A CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT EASEMENT THAT PREVIOUSLY ENCUMBERED THE SITE, BUT WAS RELEASED IN CONJUNCTION WITH THE PRIOR DEVELOPMENT WITH THE CONDITION THAT SUBSEQUENT PLANS DEMONSTRATE COMPLIANCE. A COPY OF THE EXHIBIT DEPICTING THE MINIMUM ELEVATION REQUIREMENT IS SUBMITTED HEREWITH AS SUPPLEMENTAL INFORMATION TO DEMONSTRATE COMPLIANCE.

VI. GRADING PLAN

THE GRADING PLAN ON SHEET 5 SHOWS: 1) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS FROM THE TOPOGRAPHIC SURVEY CONDUCTED BY THIS OFFICE DATED 03/21/2011, NMPS 11184, 2) PROPOSED GRADES INDICATED BY FOOTING ELEVATIONS, SPOT ELEVATIONS, CONTOURS, TOP OF CURB ELEVATIONS AND FLOWLINES, 3) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS AS SHOWN BY THE AFOREMENTIONED SURVEY, 4) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5) CONTINUITY BETWEEN PROPOSED AND EXISTING GRADES.

VII. CALCULATIONS

THE CALCULATIONS, WHICH APPEAR HEREON, ANALYZE BOTH 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 THE CALCULATIONS, THE DEVELOPED CONDITION RUNOFF WILL NOT EXCEED THE ALLOWABLE DISCHARGE FOR BASIN B.

VIII. CONCLUSIONS

THE CONTINUED FREE DISCHARGE OF RUNOFF FROM THIS SITE TO EXISTING DOWNSTREAM PUBLIC FACILITIES IS JUSTIFIED DUE TO THE FOLLOWING:

- 1) LOCATION OF SITE AT BOTTOM OF WATERSHED
- 2) EXISTING PUBLIC DRAINAGE FACILITIES ADJACENT TO SITE
- 3) CONFORMANCE TO AND WITH PREVIOUSLY APPROVED GRADING AND DRAINAGE PLAN FOR THE SITE
- 4) COMPLIANCE WITH MINIMUM ELEVATION SITE GRADING RESTRICTION

CALCULATIONS

I. SITE CHARACTERISTICS

- A. PRECIPITATION ZONE = 1
- B. $P_{100, 6 \text{ HR}} = P_{300} = 2.20$
- C. TOTAL PROJECT AREA (A_T) = 26,000 SF
0.60 AC (<1 AC)

D. LAND TREATMENTS

1. EXISTING LAND TREATMENT

TREATMENT	AREA (SF/AC)	%
A		
B		
C	26,000 / 0.60	100
D		

2. DEVELOPED LAND TREATMENT

TREATMENT	AREA (SF/AC)	%
A		
B		
C	8,685 / 0.20	33
D	17,315 / 0.40	67

II. HYDROLOGY

A. EXISTING CONDITION

1. VOLUME

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$
$$E_w = (0.44 * 0.00) + (0.67 * 0.00) + (0.99 * 0.60) + (1.97 * 0.00) / 0.60 = 0.99 \text{ IN}$$
$$V_{100, 6 \text{ HR}} = (E_w / 12) A_T = (0.99 / 12) 0.60 = 0.0492 \text{ AC-FT} = 2,150 \text{ CF}$$

2. PEAK DISCHARGE

$$Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$$
$$Q_p = Q_{100} = (1.29 * 0.00) + (2.03 * 0.00) + (2.87 * 0.60) + (4.37 * 0.00) = 1.7 \text{ CFS}$$

B. DEVELOPED CONDITION

1. VOLUME

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$
$$E_w = (0.44 * 0.00) + (0.67 * 0.00) + (0.99 * 0.20) + (1.97 * 0.40) / 0.60 = 1.64 \text{ IN}$$
$$V_{100, 6 \text{ HR}} = (E_w / 12) A_T = (1.64 / 12) 0.60 = 0.0816 \text{ AC-FT} = 3,550 \text{ CF}$$

2. PEAK DISCHARGE

$$Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$$
$$Q_p = Q_{100} = (1.29 * 0.00) + (2.03 * 0.00) + (2.87 * 0.20) + (4.37 * 0.40) = 2.3 \text{ CFS}$$

C. COMPARISON

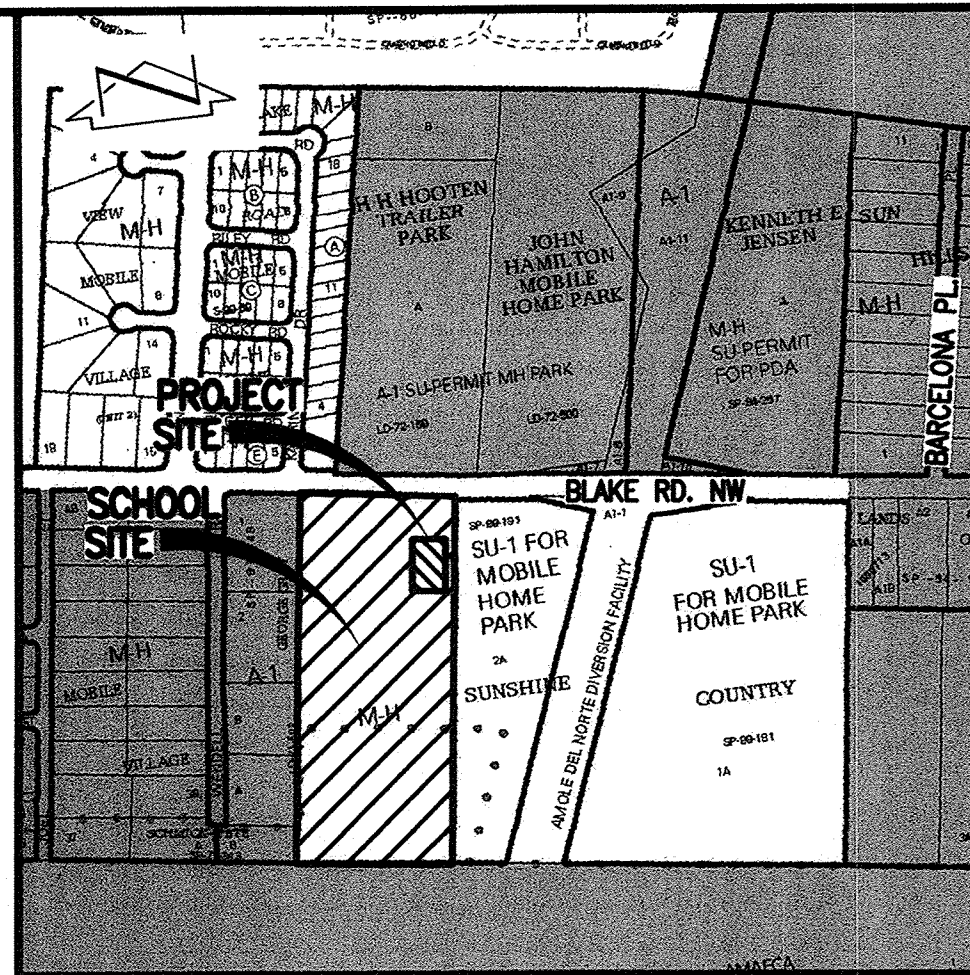
1. VOLUME

$$\Delta V_{100, 6 \text{ HR}} = 3,550 - 2,150 = 1,400 \text{ CF (INCREASE)}$$

2. PEAK DISCHARGE

$$\Delta Q_{100} = 2.3 - 1.7 = 0.6 \text{ CFS (INCREASE)}$$

TOTAL INCREASE TO BASIN B OF 0.6 cfs IS LESS THAN TOTAL ALLOWABLE INCREASE OF 3.2 cfs PER N10/D-6.



D3 VICINITY MAP N-10
SCALE: 1" = 750'

FEDERAL EMERGENCY
MANAGEMENT AGENCY

D3 F.I.R.M. PANEL 336 OF 825
SCALE: 1" = 500'
DATE 09-26-2008

LEGAL DESCRIPTION

A TRACT OF LAND LOCATED WITHIN THE CORPORATE LIMITS OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, LOCATED WITHIN PROJECTED SECTION 3, TOWNSHIP 9 NORTH, RANGE 2 EAST N.M.P.M.

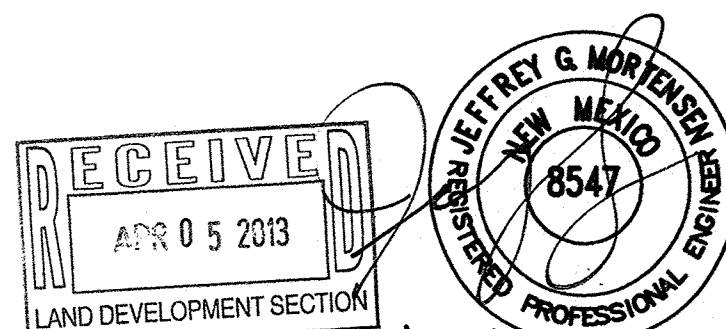
BENCHMARKS

PROJECT BENCHMARK

ACS 3 1/4" ALUMINUM DISC STAMPED, "4-N10 2002", SET INTO A CONCRETE POST 0.2 FEET ABOVE GROUND, IN THE SOUTHEAST QUADRANT OF BLAKE RD. NW AND AMOLE DEL NORTE CHANNEL. ELEVATION = 5003.719 FEET (NAVD 1988)

T.B.M. #1

A CHISELED SQUARE ON TOP OF CURB, AS SHOWN ON SHEET 5. ELEVATION = 5006.44 (NAVD 88)



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DRAINAGE PLAN AND CALCULATIONS
RFK CHARTER MIDDLE SCHOOL
4300 BLAKE ROAD SW

DESIGNED BY JGM/GM
DRAWN BY J.Y.R./E.J.S.
APPROVED BY JGM

NO.	DATE	BY	REVISIONS	JOB NO.
				2012.181.6
				DATE 03-2013
				SHEET 6 OF 11