## CITY OF ALBUQUERQUE



January 19, 2010

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

Re: Tony Hillerman Middle School - APS NW, 8101 Rainbow NW,

Request for Permanent C.O.—Approved

Engineer's Stamp dated: 05-21-08, (C09/D010)

Certification dated: 1-14-10

Dear Mr. Means,

Based upon the information provided in your submittal, received 1-15-10, the above referenced Certification is approved for a release of a Permanent Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, you can contact me at 924-3982.

Albuquerque

Timothy E. (Sims

Sincerely

NM 87103

Plan Checker—Hydrology Section Development and Building Services

www.cabq.gov

C: CO Clerk—Katrina Sigala File

SURVEY 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 RELEVANT PLANS AND DOCUMENTS WHICH ARE KNOWN TO THE ENGINEER AT THE TIME OF PLAN PREPARATION.

A. PLAT OF TRACTS C-1 AND C-2, ANCIENT MESA PREPARED BY HIGH MESA CONSULTING GROUP (HMCG) FILED FEBRUARY 21, 2008. THE PLAT DEMONSTRATES THE CREATION OF TWO TRACTS FROM TRACT C, ANCIENT MESA AND THE GRANTS OF PUBLIC WATER LINE AND THE DEDICATION OF PUBLIC STREET RIGHT-OF-WAY. THIS PLAT ALSO DEDICATES PRIVATE DRAINAGE REPORT (MDR) PREPARED BY THIS OFFICE DATED 8/17/2007, REVISED 10/11/2007, AND APPROVED BY CITY HYDROLOGY ON 09/06/07 AND 11/02/07. THE MOR ESTABLISHED THE CRITERIA FOR DEVELOPING THIS PLAN.

A. MASS GRADING PLAN PREPARED BY THIS OFFICE DATED 10/12/07 AND WAS PROVIDED TO CITY HYDROLOGY FOR RECORD.

C. MASS GRADING PLAN PREPARED BY THIS OFFICE DATED 10/12/07 AND APPROVED BY CITY HYDROLOGY ON 10/18/07. THIS PLAN ESTABLISHED THE ACCESS ROADS SERVING THE PROPERTY.

D. MASS GRADING PLAN FOR THE MIDDLE SCHOOL SITE PREPARED BY THIS OFFICE DATED 01/28/08 AND APPROVED BY CITY HYDROLOGY ON 10/18/07. THIS PLAN ESTABLISHED THE ROUGH GRADING LIMITS OF THE MIDDLE SCHOOL. III. CONCLUSIONS

A. THE PROPOSED CONSTRUCTION CONSISTS OF A NEW MIDDLE SCHOOL

B. THE PROPOSED SITE IMPROVEMENTS AND DRAINAGE CONCEPT ARE CONSISTENT WITH THE DEVELOPMENT CRITERIA ESTABLISHED BY PREVIOUSLY APPROVED PLANS FOR THE SITE (THE TRAILS MDP. VOLCAND HEIGHTS SECTOR DEVELOPMENT PLAN; MASTER DRAINAGE REPORT FOR TRACTS C-1 AND C-2, ANCIENT MESA).

C. THE PROPOSED DRAINAGE CONCEPT IS CONSISTENT WITH THE PRE-DESIGN CONFERENCE WITH THE CITY HYDROLOGIST ON MARCH 8, 2007.

D. DEVELOPED RUNOFF GENERATED BY THE DEVELOPMENT OF TRACT C-1 WILL BE TEMPORARILY MITIGATED BY USE OF RETENTION PONDS TO ALLEVATE ITS IMPACT ON THE DOWNSTREAM BOCA NEGRA DAM CONSTRUCTION.

E. TRACT C-2 IS SUBJECT TO PRIVATE SURFACE DRAINAGE EASEMENTS TO ACCEPT FLOWS FROM TRACT C-1.

F. TRACT C-2 CONTAINS A SECTION OF THE BOCA NEGRA ARROYO AND REMAINS UNDEVELOPED UNDER THIS PLAN.

G. RAINBOW BLVD. NW IS NOT INTENDED TO ACCEPT RUNOFF FROM THE DEVELOPED TRACT C-1.

H. THERE ARE NO DPM DESIGN VARIANCES REQUIRED BY THIS PROJECT. HE GRADING PLAN ON SHEETS C-106, C-107 AND C-108 SHOW 1) EXISTING GRADES INDICATED BY CONTITERVALS FROM A TOPOGRAPHIC SURVEY CONDUCTED IN MARCH, 2007 PREPARED BY THIS OFFICE WITH INTERVALS FROM A TOPOGRAPHIC SURVEY CONDUCTED IN MARCH, 2007 PREPARED BY THIS OFFICE, FOR TRACT C-1, AN SSUMED TO BE "EXISTING" FROM THE PREVIOUSLY APPROVED ROUGH GRADING PLANS FOR TRACT C-1, AN OUNDARY AND EASEMENT DATA FROM THE PLAT PREPARED BY THIS OFFICE, (REFERENCE A) 3) THE LIMIT XISTING IMPROVEMENTS AS SHOWN BY THE AFOREMENTIONED SURVEY, 4) PROPOSED GRADES INDICATED BY FOOT INTERVALS AND SPOT ELEVATIONS, AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. NOTH TEMPORARY RETENTION CONSTRUCTION BY AMAFCA. SITE, / BASIN A IS GENERALLY THE WESTERLY PORTION OF THE MIDDLE SCHOOL SITE. BASIN A ENCOMPASSES THE WESTERLY PORTIONS OF THE ACADEMY AND GYM/CAFETERIA BUILDINGS, THE BUS DROP OFF AREA ATHLETIC FIELDS AND GRAVEL PARKING LOT, AND IS DIVIDED INTO SUB-BASINS A-1 THROUGH A-9. BASIN A-1 IS THE AREA RESERVED FOR THE FUTURE TRACK AND FOFF-SITE" BASIN HAS BEEN DESIGNED TO PROVIDE AN INTERIM RETENTION POND FOR THE BASIN ITSELF, AND ALSO FOR THE OFF-SITE" BASIN 0-1. BASIN 0-1. SALSO DESCRIBED AS BASIN B-2 IN THE MASTER DRAINAGE PLAN; THE MIDDLE SCHOOL SITE, ACCEPTS ALL OF BASIN 0-1. RUNOFF AND CONVEYS IT TO SUB-BASIN A-1 VIA A 24" PRIVATE STORM DRAIN WHERE IT SURGES INTO THE INTERIM RETENTION POND AT AN INLET WITH A TEMPORARY PLATE ON THE DOWNSTREAM SIDE. THE INTERIM POND IN SUB-BASIN A-1 HAS BEEN DESIGNED TO HOLD THE VOLUME OF THE 100-YEAR STORM EVENT. IN THE VENT THAT THE VOLUME IS EXCEEDED, THE RUNOFF WILL BACK-UP AND FLOW OUT THE TOP OF THE INLET CONTAINING THE TEMPORARY PLATE. BASINS A-2 AND A-9 WOULD ACCEPT THIS EXCESS RUNOFF FOR CONVEYANCE DOWNSTREAM. BASINS A-2 THROUGH A-9 CONVEY THEIR RUNOFF VIA A PRIVATE STORM DRAIN SYSTEM. THIS PRIVATE STORM DRAIN SYSTEM CONVEYS THE RUNOFF TO A SECOND TEMPORARY RETENTION POND AT THE SOUTHEAST CORNIER OF THE MIDDLE SCHOOL SITE. THE SITE IS BEING CUT AND FILLED AS SHOWN BY THE PREVIOUSLY APPROVED ROUGH GRADING PREVIOUSLY APPROVED ROUGH GRADING PLANS FOR TRACT C-1 AND A PORTION OF TRACT C-2 THE CONSTRUCTION OF THE ELEMENTARY SCHOOL, SOCCER FIELD COMPLEX, ASSOCIATED PRIVATE FEATURES WITHIN PRIVATE DRAINAGE EASEMENTS ON TRACT C-2. THE MIDDLE SCHOOL IS BEING AND ASSOCIATED IMPROVEMENTS CONTAINING TWO DRAINAGE BASINS, "A" AND "B". TRACT C-1 IS BEING ROUGH GRADED IN ACCORDANCE WITH THE PREVIOUSLY APPROVED MASS GRADING PLANS REFERENCED HEREIN. THE MIDDLE SCHOOL SITE DRAINS FROM WEST TO THE SOUTHEASTERLY CORNER WHERE ROUGH GRADING OPERATIONS FROM PREVIOUSLY APPROVED PLANS INTERCEPT THE RUNOFF PATTERN INTO A TEMPORARY RETENTION POND IDENTIFIED IN THE MASS GRADING PLAN FOR THE MIDDLE SCHOOL, AND REQUIRED BY THE MDR (REFERENCE 2) S PLAN IS CONSISTENT WITH THE PREVIOUSLY WIS DATED 10/12/07 AND 01/28/08, WHICH CALCULATIONS CALCULATIONS AFFALL EVENT. THE PEAK ROLOGY OF THE PEAK ROLOGY PLAN WERE THE LEGAL DESCRIPTION OF THE PROPERTY IS TRACT C-1, ANCIENT MESA. TRACT C-1 WHICH ENCOMPASSES THE MIDDLE SCHOOL SITE IS APPROXIMATELY 63.3 ACRES. THE ENTIRE TRACT WILL HAVE USES AS AN ELEMENTARY SCHOOL, MIDDLE SCHOOL AND SOCCER FIELD COMPLEX. THE SITE IS ZONED RO-20 AND THE PROPOSED USE IS PERMISSIBLE. AS SHOWN BY ANNEL 111 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS, BERNALILLO COUNTY, NEW ALEXICO, AND INCORPORATED AREAS, DATED NOVEMBER 19, 2003, TRACT C-1 DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE; TRACT C-2 INCLUDES AN EXISTING FLOOD HAZARD ZONE A DESIGNATION WITHIN THE BOCA NEGRA ARROYO PASSING THROUGH THE SITE SOUTHEASTERLY FROM THE WEST BOUNDARY TO THE SOUTH BOUNDARY. E PROPERTY IS BOUNDED BY THE TRAILS DEVELOPMENT TO THE NORTH WHERE THE DEVELOPED FLOWS DRAIN TO A DETENTION ND AND PUBLIC STORM DRAIN SYSTEM AND DO NOT CONTRIBUTE OFFSITE FLOWS. UNDEVELOPED FLOWS ARE CONTAINED IN ETAILS DEVELOPMENT TO A TEMPORARY RETENTION POND AND TEMPORARY ACCESS ROAD WHICH INTERCEPT THESE FLOWS. INCIDENT MESA BOUNDS THE PROPERTY TO THE SOUTH AND WEST. THIS PROPERTY IS UNDEVELOPED AND NITAINS AN EXISTING FLOOD HAZARD ZONE A OF THE BOCA NEGRA ARROYO. TRACT C-1 IS NOT IMPACTED BY THESE WAS BECAUSE THE NORTHWEST CORNER IS A TOPOGRAPHIC HIGH POINT. TRACT C-2 WHERE IT BOUNDS TRACT C-1 ALONG THE JIHERLY PROPERTY LINE IS TOPOGRAPHICALLY LOWER THAN TRACT C-1, ALSO DOES NOT CONTRIBUTE OFFSITE FLOWS. TRACT C CONTAINS PRIVATE DRAINAGE EASEMENTS, FOR THE BENEFIT OF TRACT C-1, TO CONVEY RUNOFF FROM TRACT C-1 SHOWN BY VICINITY MAP C-9, THE SITE IS LOCATED ON ALBUQUERQUE'S NORTHWEST MESA ALONG THE WEST ROW OF NBOW BLVD NW, SOUTH OF WOODMONT DRIVE NW. THE EASTERLY HALF OF RAINBOW BLVD NW IS DEVELOPED WITH MPORARY AND PERMANENT CURB AND ASPHALT PAVEMENT, CONSTRUCTED UNDER CITY PROJECT NO. 766981 TO SUPPORT THE RITHWEST HIGH SCHOOL (A.K.A. VOLCANO VISTA HIGH SCHOOL). THE WESTERLY HALF OF RAINBOW WILL BE CONSTRUCTED AS TRAILS SUBDIVISION CURRENTLY UNDER DEVELOPMENT BY LONGFORD HOMES IS ADJACENT TO THE NORTH PROPERTY LINE THE PROPERTY. THE PORTION OF THE TRAILS ADJACENT TO THE MIDDLE SCHOOL PORTION OF THE SITE IS ALREADY NOF TO A PUBLIC STORM DRAIN IN UNIVERSE BLVD. NW TO BE CONSTRUCTED. THE WESTERLY PORTION OF THE MIDDLE SCHOOL SITE ABUTS THE SOCCER FIELD COMPLEX PROPOSED FOR THIS TRACT, WHICH IS BEING ROUGH GRADED AT THE TIME OF SUBMITTAL. NOTE APPEARING HEREON ANALYZE BOTH THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR THE PROCEDURE FOR 40-ACRE AND SMALLER BASIN, AS SET FORTH IN THE REVISION OF SECTION 22.2, E DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO K RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. PIPE FLOW CAPACITIES APPEARING ON THE REGENERATED USING FLOWMASTER PE 6.0 BY HAESTAD METHODS. I PONDS ARE REQUIRED TO MITIGATE DEVELOPED RUNOFF FROM IMPACTING UPON COMPLETION OF THE DAM, THE TEMPORARY RETENTION PONDS WILL AS IDENTIFIED IN THE PREVIOUSLY APPROVED MASTER DRAINAGE REPORT. A IS SHOWN FOR DRMATION DEPICTED BY ARY SURVEY PREPARED RIVER PREPARED IN 11184, DATED TION IS BASED UPON HIGH MESA ORTENSEN AND ASSOC., VO. 11184, WITH GRADING PLAN DATED 11/28/07, G PLAN FOR THE APPROVED MASTER ARE APPROVED BY DRAINAGE REPORT CITY HYDROLOGY. FOR CERTIFICATION
AND RECORD
DRAWING LEGEND,
SEE SHEET C-001C D \$ E BOCA NEGRA ARROYO CONVERTED TO ALLOW 図 の S. TOTAL PROJECT AREA (At) = ( BASIN A TING CONDITION DEVELOPED LAND TREATMENT BASIN B (TOTAL TREATMENT B C C C SUB-BASIN 0-3 (TOTAL SUB-BASIN 0-1 (TOTAL AREA=602,795 SF/13.84 AC) (SUB-BASIN B-2 FROM MASTER DRAINAGE REPORT) SUB-BASIN A-2 SUB-BASIN A-1 TREATMENT C TREATMENT B C C D TREATMENT D TREATMENT D 2. PEAK DISCHARGE 2. PEAK DISCHARGE

QP = QPA Ax + QPBAx + QPCAc + QPCAg

QP = Q100 = (2.03(18.87)+2.87(1.19) = 41.7 CFS TREATMENT B C  $Ew = (E_A A_A + E_B A_B + E_C A_C + E_D A_O)/Ar$  Ew = (0.67(0.50) + 0.99(2.83) + 1.97(0.03)/3.36 = 0.95 | N  $V_{100} = (E_W/12)Ar = (0.95/12)3.36 = 0.27 AC-FT 11,761 CF$ QP = QPA AA + QPBAA + QPCAC + QPCAO QP = Q100 = 2.03(0.50) + 2.87(3.07) + 4.37(0.03) = 10.0 CFS $Ew = (E_AA_A + E_BA_B + E_CA_C + E_DA_D)/Ar$  Ew = (0.67(2.01) + 0.99(1.43))/3.44 = 0.80 IN  $V_{100} = (E_W/12)Ar = (0.80/12)3.44 = 0.23 \text{ AC-FT } 10,019 \text{ CF}$  $Q_P = Q_{PA} A_A + Q_{PB} A_A + Q_{PC} A_C + Q_{PC} A_D$   $Q_P = Q_{100} = 2.03(2.01) + 2.87(1.43) = 8.2 CFS$ VOLUME  $Ew = (E_AA_A + E_BA_B + E_CA_C + E_DA_D)/AT$  Ew = (0.67(18.87) + 0.99(1.19))/20.06 = 0.69 IN Vioc = (Ew/12)AT = (0.69/12)20.06 = 1.15 AC-FT 50,094=252,156 SF/5.79 AC)

AREA (SF/AC)

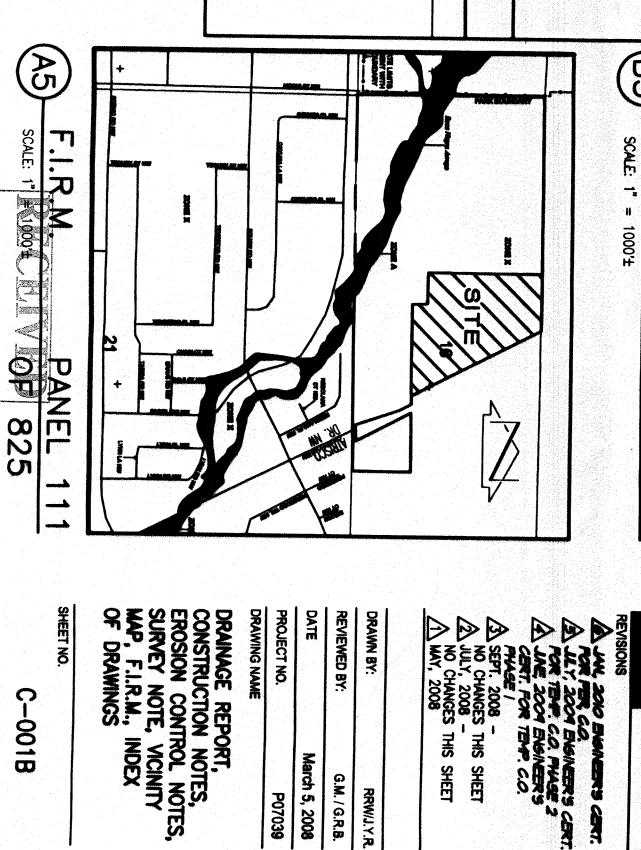
74,205 / 1.70

12,088 / 0.28

165,863 / 3.81 AREA (SF/AC) %
32,385 / 0.74 52.1
29,337 / 0.67 47.9
AREA=224,450 SF/5.15 AC) AREA (SF/AC) 11,860 / 0.27 L AREA=60,611 SF/1.39 / AREA (SF/AC) 34,540 / 0.79 121,910 / 2.80 67,996 / 1.56 AREA (SF/AC) 683,626 / 6.51 145,111 / 3.33 174,100 / 4.00 AREA=61,722 SF/1. AREA (SF/AC) 21,000 / 0.48 21,000 / 0.48 AREA (SF/AC) 61,477 / 1.41 9,495 / 0.22 AREA=23,103 SF/0.53 / AREA=67,889 SF/1.56 AREA (SF/AC) 67,889 / 1.56 AREA=36,368 SF/0.83 AREA=11,860 SF/0.27 AC) AREA (SF/AC) 8,270 / 0.19 8,270 / 0.19 19,827 / 0.46 AREA (SF/AC) 7,350 / 0.17 7,350 / 0.17 7,350 / 0.17 39,911 / 0.92 AREA=70,971 SF/1.63 AC) AREA (SF/AC) 21,847 / 0.50 123,128 / 2.83 1,300 / 0.03 AREA (SF/AC) 6,593 / 0.15 6,593 / 0.15 47,424 / 1.09 AREA (SF/AC) 23,103 / 0.53 NEA=146,275 SF/3.36 AREA (SF/AC) 87,577 / 2.01 62,423 / 1.43 AREA (SF/AC) 821,870 / 18.87 51,975 / 1.19 =54,612 SF/1.25 8 52.1 47.9 50.0 50.0 ¥ 47.0 24.1 28.9 <u></u>₹ 100.0 100.0 13.6 13.6 72.8 10.8 10.8 78.4 % 86.5 <u></u>∂ 94.1 5.9 OFFSITE BASINS 2. PEAK DISCHARGE

QP = QPA AA + QPBAA + QPCAC + QPCAB

QP = Q100 = 2.03(0.79)+2.87(2.80)+4.37(1.56) = 16 1. VOLUME BASIN 0-2 BASIN 0-1 (SUB-BASIN B-2 FROM MDR) 2. PEAK DISCH Ew =  $(E_AA_A + E_BAB_B + E_CAC_A + E_DA_D)/AT$ Ew = (0.67(0.79) + 0.99(2.80) + 1.97(1.56))/5.15 = 1.24 INVion =  $(E_W/12)AT = (1.24/12)5.15 = 0.53 AC_FT 23,087 CF$ VOLUME QP = QPA AA + QPBAA + QPCAC + QPCAO QP = Q100 = 2.87(0.74)+4.37(0.67) = 5.1 CFSPEAK DISCHARGE Ew =  $(E_AA_+ E_BA_B + E_CA_C + E_DA_D)/AT$ Ew = (0.99(0.74) + 1.97(0.67))/1.41 = 1.46 |NVioo =  $(E_W/12)AT = (1.46/12)1.41 = 0.17 AC-FT 7,405 CF$ QP = QPA AA + QPBAA + QPCAC + QPCAG QP = Q100 = 2.87(0.48) + 4.37(0.48) = 3.5 CFSEw = (EAA+EBAG+ECAC+EDAO)/Ar Ew = (0.99(0.48)+1.97(0.48))/0.96 = 1.48 IN Vion = (Ew/12)Ar = (1.48/12)0.96 = 0.12 AC-FT 5,227 CF 2. PEAK DISCHARGE 1. VOLUME QP = QPA AA + QPBAA + QPCAC + QPCAC QP = Q100 = 2.03(6.51) + 2.87(3.33) + 4.37(4.00) =Ew =  $(E_AA_A + E_BAB_B + E_CAC_A + E_DA_D)/Ar$ Ew = (0.67(6.51) + 0.99(3.33) + 1.97(4.00))/13.84 = 1.12 INVion =  $(E_W/12)Ar = (1.12/12)13.84 = 1.292 AC_FT 56,389 CF$ 1. VOL QP = QPA AA + QPBAA + QPCAC + QPCAC QP = Q100 = 2.03(1.707) + 2.87(0.28) + 4.37(3.81) = 20.9 CFSEw =  $(E_AA_1 + E_BAB_2 + E_CAC_2 + E_DA_0)/Ar$ Ew = (0.67(1.70) + 0.99(0.28) + 1.97(3.81)/5.79 = 1.54 INVioo =  $(E_W/12)Ar = (1.54/12)5.79 = 0.74 AC_FT 32,234 CF$ PEAK DISCHARGE QP = QPA AA + QPBAA + QPCAC + QPCAC QP = Q100 = 4.37(1.56) = 6.8 CFSEw = (EAA + EBAB + ECAC + EDAD)/ArEw = 1.97(1.56)/1.56 = 1.97 |N V100 = (Ew/12)Ar = (1.97/12)1.565 = 1. VOLUME PEAK DISCHARG QP = QPA AA + QPBAA + QPCAC + QPCAC QP = Q100 = 2.03(0.19) + 2.87(0.19) + 4.37(0.46) =Ew = (EAA+EBAB+ECAC+EDAO)/ArEw = (0.67(0.19)+0.99(0.19)+1.97(0.46))/0.83 = 1.47 in Vigo = (Ew/12)Ar = (1.47/12)0.83 = 0.10 AC-FT = 4,356 CF QP = QPA AA + QPBAA + QPCAC + QPCAB QP = Q100 = 2.03(0.17) + 2.87(0.17) + 4.37(0.92) =Ew =  $(E_AA_A + E_BAB_B + E_CA_C + E_DA_0)/A_T$ Ew = (0.67(0.17) + 0.99(0.17) + 1.97(0.92))/1.25 = 1.66 IN Vion =  $(E_W/12)A_T = (1.66/12)1.25 = 0.17$  AC-FT = 7,405 CF QP = QPA AA + QPBAA + QPCAC + QPCAB QP = Q100 = 2.03(0.15) + 2.87(0.15) + 4.37(1.09) = 5.5 CFSEw =  $(E_AA_A + E_BA_B + E_CA_C + E_DA_0)/A_T$ Ew = (0.67(0.15) + 0.99(0.15) + 1.97(1.09))/1.39 = 1.72 INV100 =  $(E_W/12)A_T = (1.72/12)1.39 = 0.20 \text{ AC-FT} = 8,712 \text{ CF}$ PEAK DISCHARGE QP = QPA AA + QPBAA + QPCAC + QPCAO QP = Q100 = 4.37(0.27) = 1.2 CFSEw =  $(E_AA_A + E_BA_B + E_CA_C + E_DA_D)/AT$ Ew = 1.97(0.27)/0.27 = 1.97 IN  $V_{100} = (E_W/12)AT = (1.97/12)0.27 = 0.04$ VOLUME QP = QPA AA + QPBAA + QPCAC + QPCAD QP = Q100 = 4.37(0.53) = 2.3 CFSEw = (EAA + EBAB + EcAc + EDAo)/ArEw = 1.97(0.53)/0.53 = 1.97 |N  $V_{100} = (Ew/12)Ar = (1.97/12)0.53$ PEAK DISCHARGE PEAK DISCHARGE QP = QPA AA + QPBAA + QPCAC + QPCAD QP = Q100 = 2.87(1.41)+4.37(0.22) = 5.0 CFS40.2 CFS POND 1. C-106 C-107 C-108 C-301 C-302 INDEX SHEET C-001B CONSTRUCTION S DRAWINGS , CONSTRUCTION NOTES, SURVEY NOTE, VICINITY MAP, OF DRAWINGS NOTES SECTIONS SECTIONS DING PADS.
ARE DISTURB



March 5, 2008 P07039

G.M. / G.R.B.

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MAP

C-9

Albuquerque Public Schools 8101 Rainbow Blvd. NW Albuquerque, NM 87114

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KER BY

LEGEND

N W/CAP SIAMPED JMA ON SHEET C-101. = 5443.20 FEET (NGVD

ST CORNER OF 5 FEET EAST OF ENCE AND

BENCHMARKS

DESCRIPTION

DRAINAGE

RE

PORT

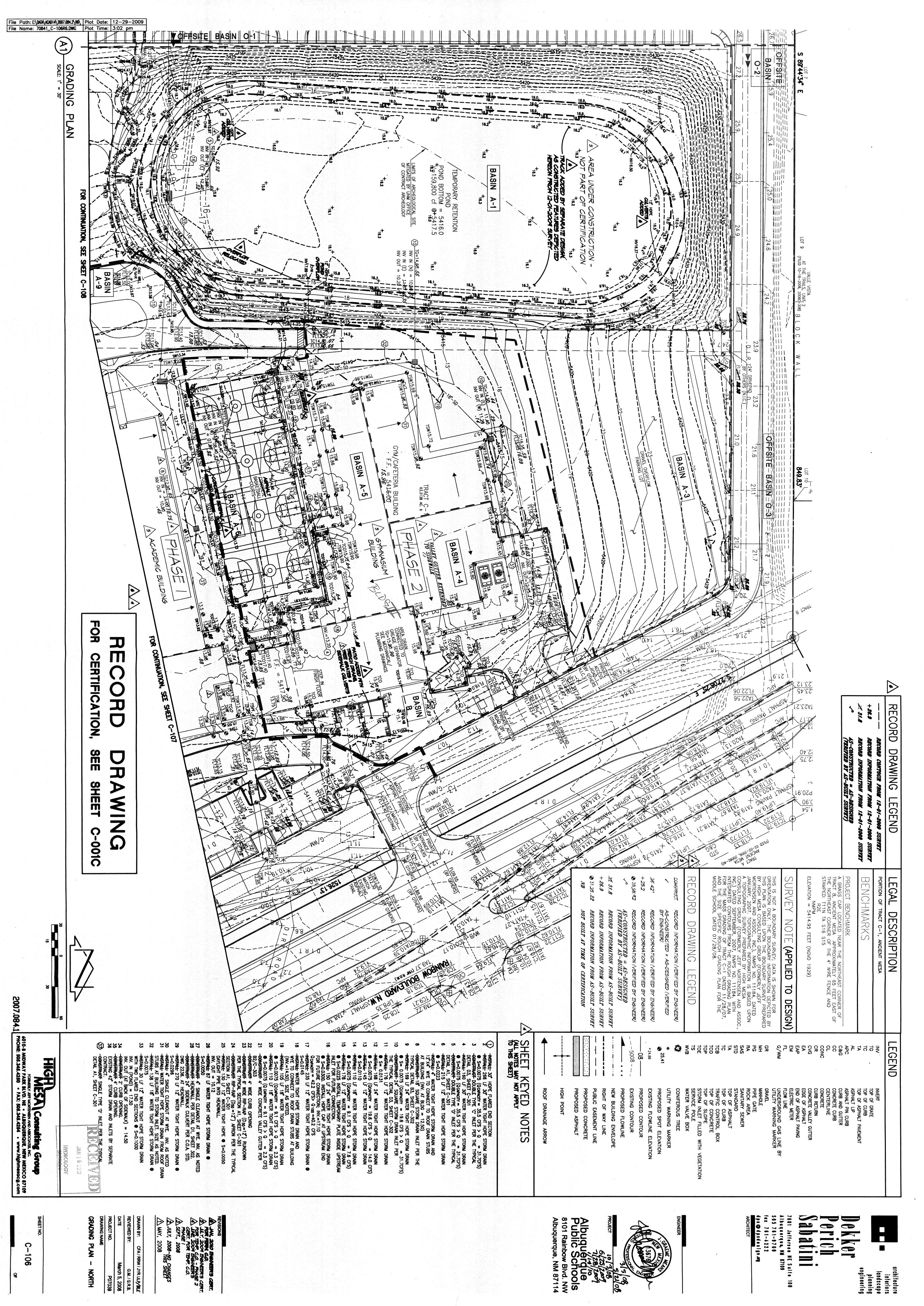
CALCULATIONS
SITE CHARACTERISTICS

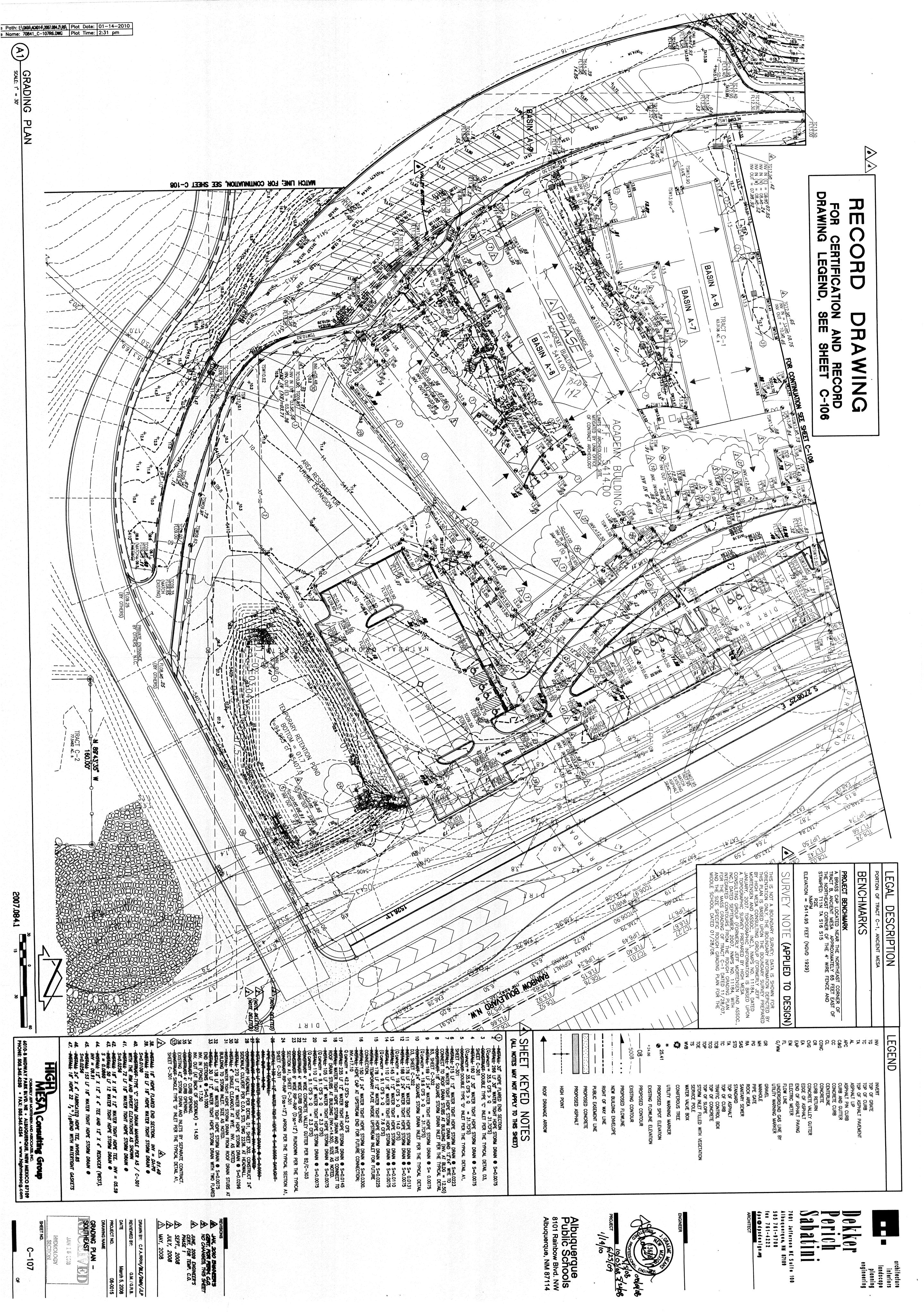
PRECIPITATION ZONE = 1

00.6 HR = P360 = 2.20

Ew =  $(E_AA_A + E_BA_B + E_CA_C + E_DA_D)/Ar$ Ew = 0.99(1.41) + 1.97(.022)/1.63 = 1.12 |NV100 =  $(E_W/12)Ar = (1.12/12)1.63 = 0.15 AC-FT 6,631 CF$ 

architecture
interiors
landscape
planning
engineering





File Path: E\DATA\ACAD14\2007.084.2\R6\ Plot Date: 01-14-2010 File Name: 70841\_C-108\_R6.DWG Plot Time: 2:28 pm

REVISIONS

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AN, 2008

DRAWN BY:
REVIEWED BY:
DATE
PROJECT NO.
DRAWING NAME

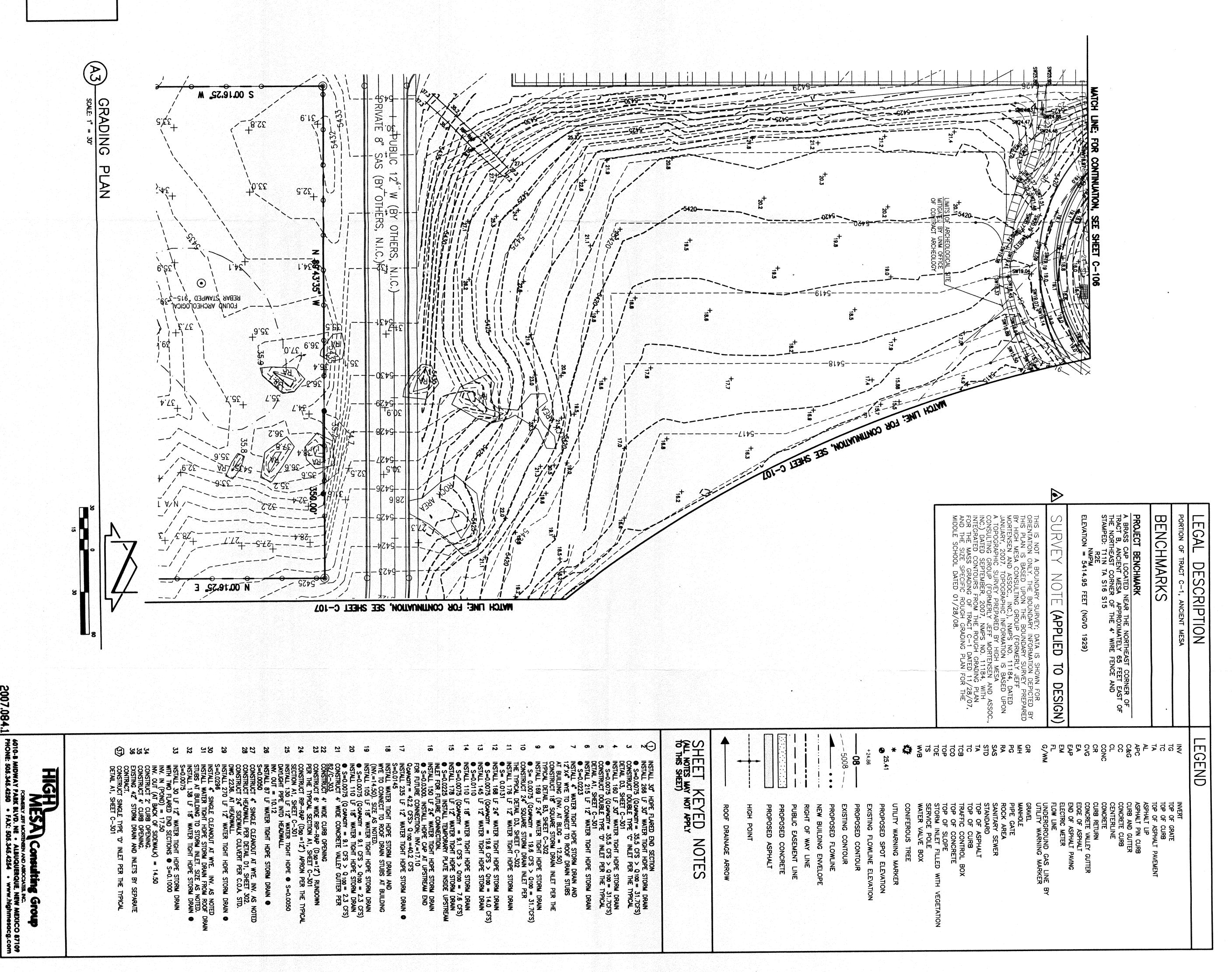
CFA/RRW/JYR
G.M./G.R.B.
March 5, 2008
P07039

GRADING PLAN SOUTH

JAN 18 COID

108

PRICORD DRAWING CERTIFICATION AND RECORD SEE SHEET C-106



Albuquerque Public Schools 8101 Rainbow Blvd. NW Albuquerque, NM 87114

SATION OF THE PROPERTY OF THE

Dekker

51-9700 51-4222 1 psdesign.org

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architecture
interiors
landscape
planning
engineering