MATERIALS

LINES

CONCRETE

CENTERLINE

MATCH LINE

EARTHWORK

FLOWLINE

GAS LINE

EASEMENT LINE

SECTION CUT LINE

CONTOUR LINE

SPOT ELEVATION

DIRECTION OF FLOW

PROJECT / PHASE BOUNDARY

MISCELLANEOUS UTILITIES

SUBDIVISION BOUNDARY

PROPERTY LINE (PLAN)

PROPERTY LINE (SECTION)

UNDERGROUND TELEPHONE UNDERGROUND ELECTRICAL STORM DRAIN STORM DRAIN MANHOLE STORM DRAIN INLET SANITARY SEWER SANITARY SEWER LINE SAS SERVICE CONNECTIONS SAS CAP OR PLUG **ENCASEMENT** WATER WATER LINE WATER SERVICE CONNECTIONS GATE VALVE FIRE HYDRANT **BUTTERFLY VALVE** REDUCER 00000000 WATER PRESSURE ZONE BOUNDARY WATER FITTINGS CAPS AND PLUGS **ELBOW CROSS** TEE **MISCELLANEOUS** CHAINLINK FENCE FIELD FENCE COMMON YARD WALL RETAINING WALL POWER OR TELEPHONE POLE σ

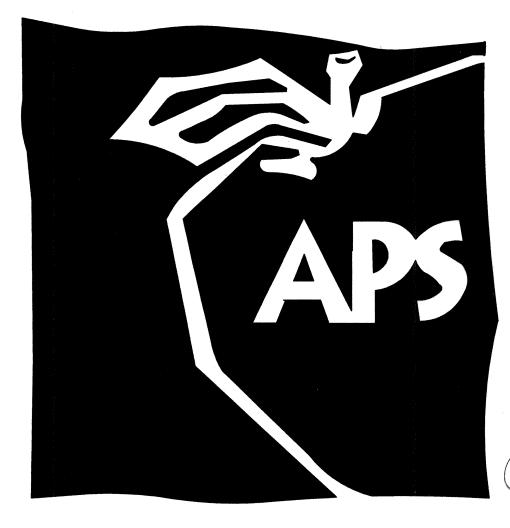
• LEGEND •

CONSTRUCTION PLANS

for

CHAMISA STORM DRAIN SURGE POND JAMES MONROE MIDDLE SCHOOL

ALBUQUERQUE, NEW MEXICO NOVEMBER, 2007



CERTIFICATE OF SUBSTANTIAL COMPLIANCE

CONSULTING GROUP, HEREBY CERTIFY THAT THE INFRASTRUCTURE PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS. THE RECORD INFORMATION EDITED ONTO THIS ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION, WHERE NOTED, TOGETHER WITH AS-BUILT SURVEY DATA OBTAINED BY CHARLES G. CALA, JR., NMPS 11184, OF THE FIRM HIGH MESA CONSULTING GROUP AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE DESIGN INTENT OF THIS PROJECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE/CITY ENGINEER.

JEFFREY G. MORTENSEN, NMPE 8547

11-20-2006

DATE
02-18-2009



INDEX OF DRAWINGS

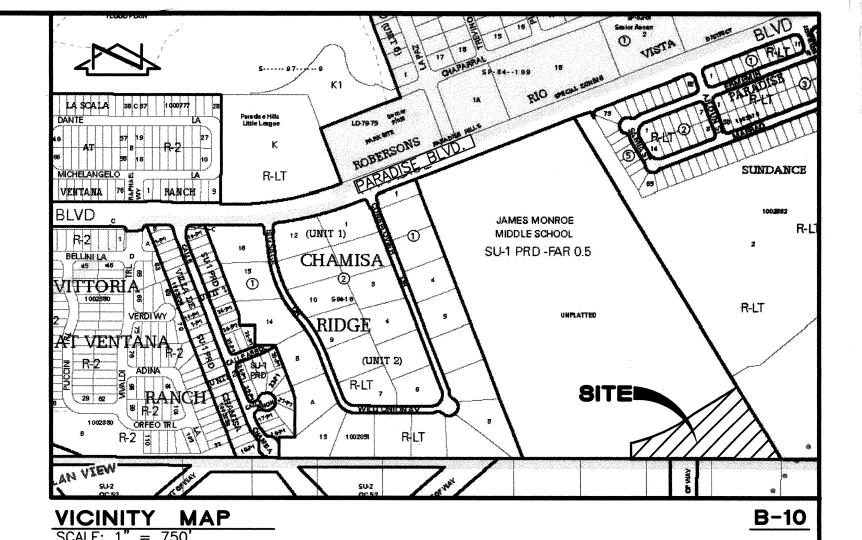
DESCRIPTION 1 COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS 2 SITE PLAN, GRADING PLAN, AND GRADING NOTES 3 SECTIONS AND DETAILS AS-BUILT CONDITIONS & HYDRAULIC CALCULATIONS APPROVED AS REDESIGN REVIOUS OF DESIGN REVIOUS

Δ

RECORD DRAWING

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 4-01-2009

short 4 added by consultant to show additional Record Drawing information

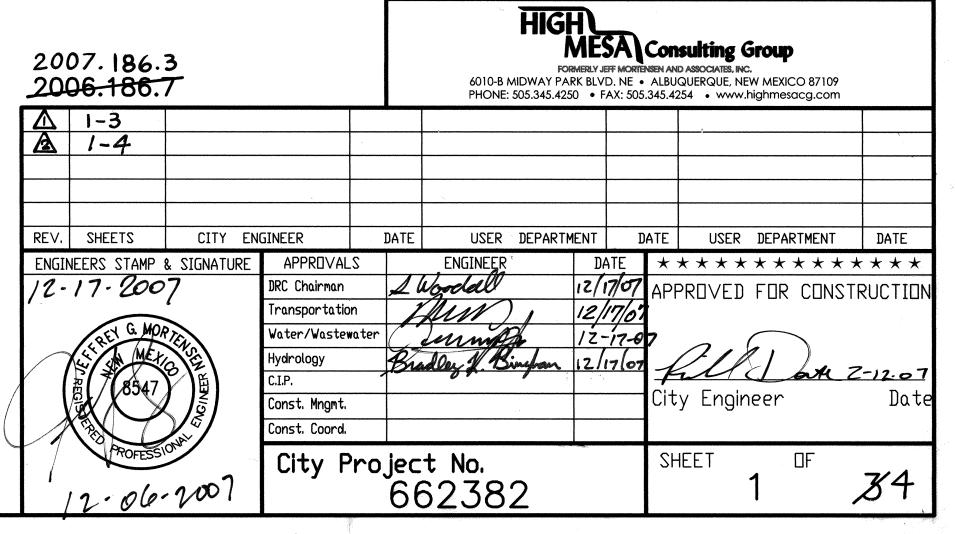


GENERAL NOTES

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS—PUBLIC WORKS CONSTRUCTION—1986 UPDATE NO. 7, AMENDMENT 1.
- 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, (ALBUQUERQUE AREA) 1-800-321-ALERT (2537) (STATEWIDE) FOR LOCATION OF EXISTING PUBLIC UTILITIES AND ABASTO UTILITY LOCATION CO. (889-8307) FOR LOCATION OF EXISTING PRIVATE UTILITIES.
- 3. 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.
- 4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- 5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION
- 6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- 7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- 7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAY

 8. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- 9. TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER.
- 10. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- 11. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- 12. ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- 13. CONTRACTOR SHALL COORDINATE WITH NMUI FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY NMUI PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATION. THE NMUI PHONE NUMBER IS 898–2661.
- 14. CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
- 15. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924–3400) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
- 16. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED STRIPING BY CONTRACTOR TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
- 17. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS
- CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS

 18. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- 19. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 20. WHEN APPLICABLE, CONTRACTOR SHALL, ON BEHALF OF THE OWNER AND OPERATORS, SECURE "TOPSOIL DISTURBANCE DEPART" FROM THE CITY AND COR SILE A NOTICE OF INTENT (N.O.L.) WITH THE EDA PRIOR TO RECINAINE CONSTRUCTION
- PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION
 21. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE
 CITY OF ALBUQUERQUE.



- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986, UPDATE 7, INCLUDING AMENDMENT
- 260-1990, (ALBUQUERQUE AREA) 1-800-321-ALERT (2537) (STATEWIDE) FOR LOCATION OF EXISTING PUBLIC UTILITIES AND ABASTO UTILITY LOCATION CO. (889-8307) FOR LOCATION OF EXISTING PRIVATE UTILITIES. 3. 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 THEREFORE. 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

. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM.

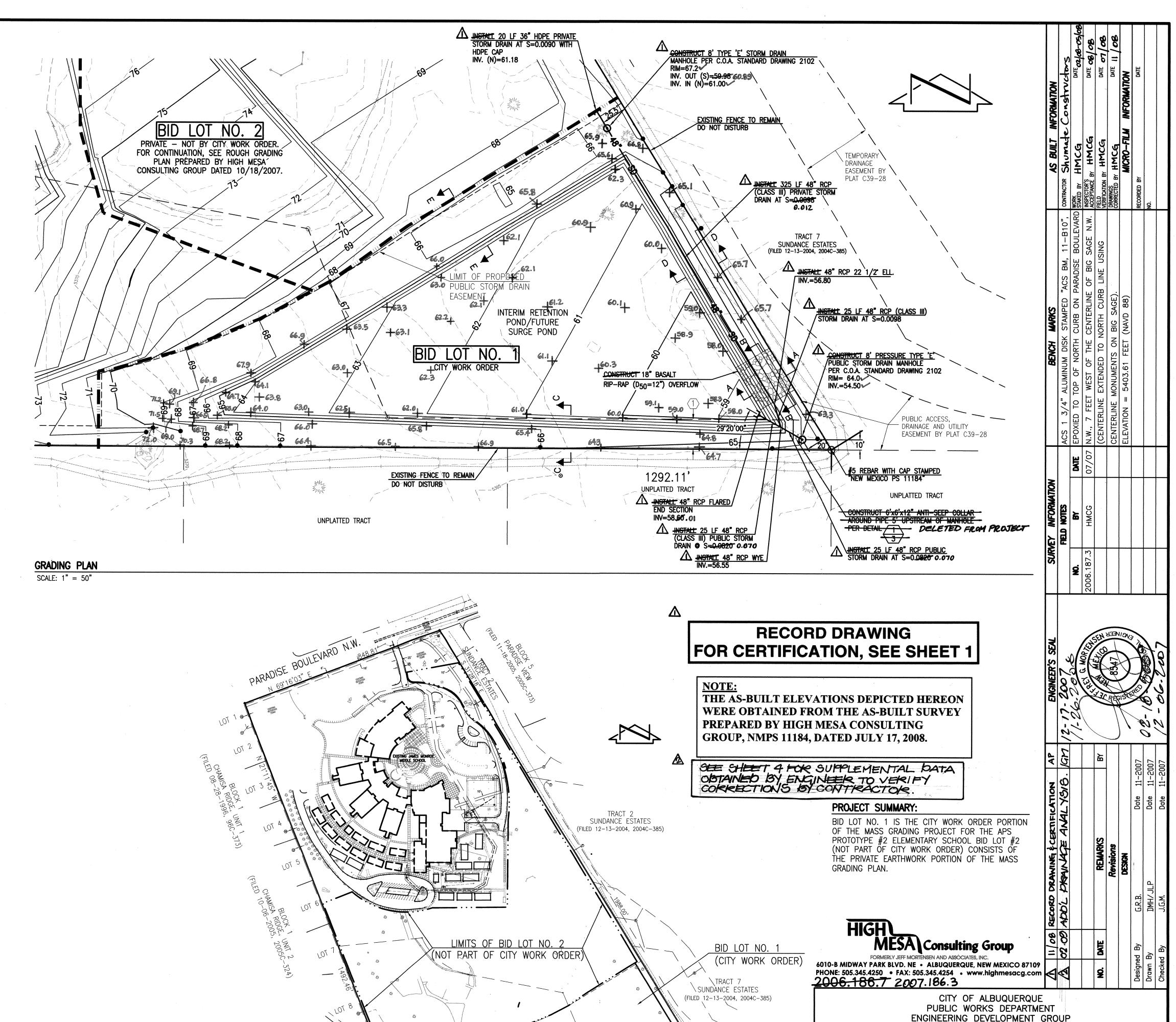
- RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES. 4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS
- 5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION. 6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND

IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.

- LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH. 7. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO
- 8. 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.
- 9. WHEN APPLICABLE, THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION. AN EXCAVATION PERMIT IS REQUIRED FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY. 10. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC
- PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE. 11. A BORROW SITE FOR IMPORT MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH
- APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A BORROW SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE. 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES
- AND STRUCTURES WHICH SURROUND THE WORK AREAS. 13. THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
- 14. 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. 15. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTION REQUIREMENT IS OTHERWISE SPECIFIED.
- 16. ALL EXISTING UTILITIES ENCOUNTERED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO GRADE AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION
- 17. MAXIMUM UNPROTECTED SLOPES SHALL BE 3:1.
- 18. ROUGH GRADING TOLERANCES SHALL BE \pm 0.33 FT. 19. UNDER FEDERAL LAW, THE OPERATOR(S) OF CONSTRUCTION SITES WHERE 1 OR MORE ACRES ARE DISTURBED MUST SUBMIT A NOTICE OF INTENT (N.O.I.) TO OBTAIN COVERAGE UNDER AN NPDES STORM WATER CONSTRUCTION GENERAL PERMIT.
- 20. WHEN APPLICABLE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND FILE AN N.O.I. WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
- 21. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS.

LEGEND

- +63.1 RECORD INFORMATION OBTAINED FROM AS-BUILT SURVEY
- AS-CONSTRUCTED = AS DESIGNED VERIFIED BY AS-BUILT SURVEY
- RECORD INFORMATION EDITED BY ENGINEER



1292.11

UNPLATTED TRACT UNPLATTED TRACT

UNPLATTED TRACT

TITLE: SITE PLAN, GRADING PLAN, AND GRADING NOTES

City Engineer Approval

FEB 1 2 2008

CITY ENGINEER

662382

Design Review Committee

DEC 1 7 2007

City Project No.

ESIGN

CHAMISA STORM DRAIN SURGE POND AT JAMES MONROE MIDDLE SCHOOL

12-17-2007

LOT 9

UNPLATTED TRACT

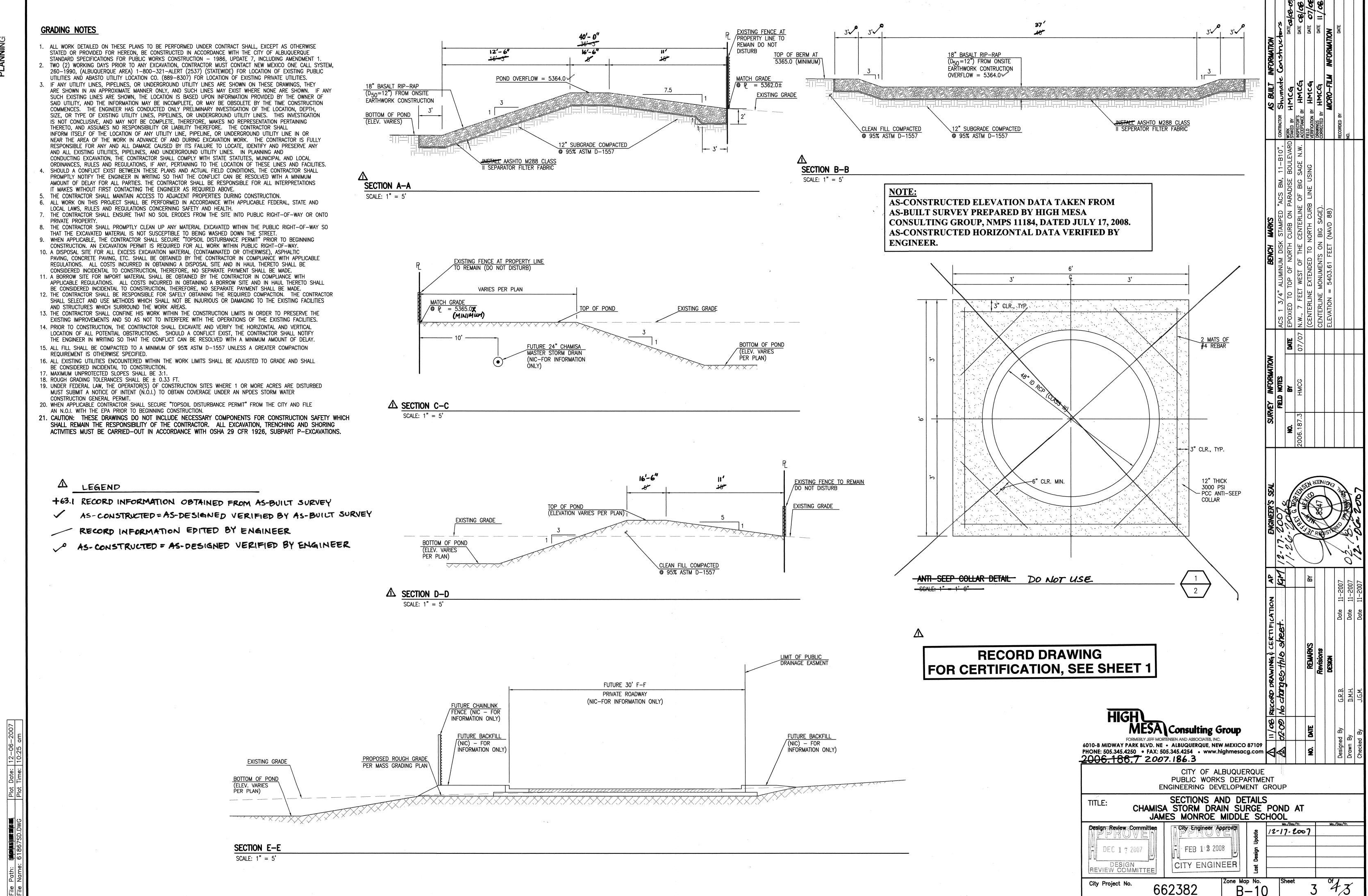
SCALE: 1" = 200"

OVERALL SITE PLAN (FOR ORIENTATION ONLY)

TRACT 1

(FILED 08-17-1981, C18-157)

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON AN UNRECORDED BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED JULY 13, 2007. THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE "PARTIAL TOPOGRAPHIC SURVEY — JAMES MONROE MIDDLE SCHOOL" PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED JULY 13, 2007.



/2\ DRAINAGE PLAN EXECUTIVE SUMMARY AND INTRODUCTION DEVELOPED CONDITIONS RANCH THE AS-CONSTRUCTED FACILITY IS DEFICIENT WITH RESPECT TO OVERFLOW SPILLWAY CAPACITY. THE THE CHAMISA STORM DRAIN SURGE POND IS LOCATED AT THE SOUTHEAST CORNER OF THE JAMES MONROE MIDDLE A DPM DESIGN VARIANCE IS REQUESTED TO REDUCE THE REQUIREMENTS FOR THE INTERIM SPILLWAY CAPACITY TO AS-CONSTRUCTED CAPACITY IS APPROXIMATELY 52% OF THE AS-DESIGNED CAPACITY AND 55% OF THE CAPACITY SCHOOL SITE IN ALBUQUERQUE'S NORTHWEST MESA. THIS SUBMITTAL IS A SUPPLEMENT TO THE PREVIOUSLY PASS THE 100-YEAR RAINFALL EVENT (125 CFS). IN THE DEVELOPED CONDITION, TO A CAPACITY EQUIVALENT TO A REQUIRED USING THE SITE SPECIFIC BHI PLAN. THIS CORRELATES APPROXIMATELY TO A 10-YEAR RAINFALL EVENT FOR APPROVED MASTER DRAINAGE PLAN FOR THE SITE DATED AUGUST 31, 2007. THE COMPLETED CONSTRUCTION DEVIATED 10-YEAR RAINFALL EVENT (69 CFS). APPROVAL OF THIS REQUEST FOR VARIANCE IS JUSTIFIED FOR THE FOLLOWING THE INTERIM FACILITY. IN LIEU OF RECONSTRUCTING THIS INTERIM FEATURE OF THE POND, A DPM VARIANCE IS FROM THE APPROVED WORK ORDER PLANS REQUIRING ADDITIONAL EVALUATION TO DEMONSTRATE COMPLIANCE WITH REASONS: REQUESTED TO LOWER THE CRITERIA FROM A 100-YEAR RAINFALL EVENT TO A 10-YEAR RAINFALL EVENT. THE DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS. THIS SUBMITTAL IDENTIFIES THE DEVIATIONS Poindae Hila Little Lexpse FOLLOWED BY JUSTIFICATION FOR ACCEPTANCE OF THE COMPLETED CONSTRUCTION. A. INTERIM, NOT PERMANENT CONDITION THE STORAGE CAPACITY OF THE AS-CONSTRUCTED POND COMPARES FAVORABLY TO THE AS-DESIGNED CAPACITY AND B. THE LAND IMMEDIATELY DOWNSTREAM OF THE INTERIM RETENTION POND IS UNDEVELOPED REQUIRES NO FURTHER ANALYSES OR JUSTIFICATIONS. R-LT THIS SUBMITTAL IDENTIFIES AND EVALUATES THE AS-BUILT CONDITIONS OF THE CHAMISA MASTER STORM DRAIN C. PER THE CHAMISA STORM DRAIN COST SHARE AGREEMENT, THE UNDEVELOPED LAND SITUATED DOWNSTREAM SURGE POND CONSTRUCTED ON THE JAMES MONROE MIDDLE SCHOOL PROPERTY IN SUPPORT OF THE FOLLOWING: OF THE SITE CAN NOT BE DEVELOPED IN ADVANCE OF THE COMPLETION OF THE CHAMISA STORM DRAIN THAT THE NEW 48-INCH RCP STORM DRAIN DISCHARGING INTO THE PROPOSED SURGE POND IS PRIVATE, YET DESIGNED AND - EVALUATION OF AS-CONSTRUCTED STORAGE AND SPILLWAY CAPACITIES JAVES MORHUE WILL CONVERT THE INTERIM RETENTION POND TO A PERMANENT DETENTION POND R-LT CONSTRUCTED TO PUBLIC STORM DRAIN STANDARDS BECAUSE IT LIES WITHIN THE NEW PUBLIC DRAINAGE EASEMENT. - APPROVAL AND ACCEPTANCE OF CITY PROJECT #662382 BY THE CITY D. THE INTERIM RETENTION POND HAS EXCESS CAPACITY OF ALMOST 0.5 AC-FT ABOVE AND BEYOND THAT BECAUSE THIS PORTION OF THE WORK COMPLETED IS "PRIVATE", IT SHALL BE THE RESPONSIBILITY OF THE SU-1 PRD -FAR 0.5 CHAMISA X - REQUEST FOR DPM VARIANCE TO SPILLWAY CAPACITY. REQUIRED TO ACCOMMODATE THE V_{10-DAY} DEVELOPED VOLUME OF RUNOFF GENERATED BY THE APS PROPERTY UNDERLYING PROPERTY OWNER TO OWN, OPERATE AND MAINTAIN THIS PRIVATE IMPROVEMENT. E. THE EXCESS CAPACITY OF THE INTERIM RETENTION POND WILL PARTIALLY OFFSET THE NEED TO PASS THE AS-CONSTRUCTED PLAN PROJECT DESCRIPTION 100-YEAR RAINFALL EVENT AND MINIMIZE APPARENT IMPACTS ON DOWNSTREAM PROPERTIES SHOULD THE BY TOR'S ANCE RIDGE SPILLWAY BECOME ACTIVATED THE AS-CONSTRUCTED PLAN THAT APPEARS HEREON SHOWS: 1) EXISTING GRADES INDICATED BY CONTOURS AT 1-FOOT, AS SHOWN BY VICINITY MAP, THE SITE IS LOCATED ON THE SOUTH SIDE OF PARADISE BOULEVARD NW BETWEEN 0-INCH INTERVALS OBTAINED FROM A TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS UNIVERSE BOULEVARD NW AND THE UNSER BLVD: N\W EXTENSION. AS SHOWN BY PANEL 104 OF 825 OF THE NATIONAL 11184, DATED JULY 17, 2007, 2) SUPPLEMENTAL RECORD DATA OBTAINED UNDER THE DIRECT SUPERVISION OF THE FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS, BERNALILLO COUNTY, NEW MEXICO, AND INCORPORATED AS-BUILT POND VOLUME ENGINEER, NMPE 8547, ON DECEMBER 12, 2008, 3) BOUNDARY AND EASEMENT DATA FROM THE PLAT FILED DECEMBER 31, AREAS, DATED 2008, THIS PROPERTY DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. 2008, AS REFERENCED ABOVE, AND 4) THE LIMIT AND CHARACTER OF EXISTING IMPROVEMENTS AS SHOWN BY THE BY AVERAGE END METHOD AFOREMENTIONED TOPOGRAPHIC SURVEY. III. BACKGROUND DOCUMENTS ELEVATION AREA (SF) VOLUME (CF) Σ VOLUME (AC-FT) VII. CALCULATIONS THE FOLLOWING IS A LIST OF RELEVANT DOCUMENTS RELIED UPON IN THE PREPARATION OF THIS DRAINAGE 5357.3 SUBMITTAL: THE CALCULATIONS CONTAINED HEREON ANALYZE THE FOLLOWING ASPECTS OF THE INTERIM RETENTION POND -MASTER DRAINAGE PLAN (MDP) DATED AUGUST 31, 2007 PREPARED BY HIGH MESA CONSULTING GROUP A. STORAGE CAPACITY USING THE AVERAGE END-AREA METHOD 1720 (HMCG). THIS REPORT ESTABLISHED THE CRITERIA UPON WHICH THE SOUTHERLY PORTION OF THE SITE B. OVERFLOW SPILLWAY CAPACITY USING HAESTAD METHOD VICINITY MAP 0.12 COULD BE DEVELOPED AS AN ELEMENTARY SCHOOL SITE. THE PERTINENT CRITERIA PERTAINING TO THE SOFTWARE VERSION 6.0. SCALE: 1" = 750'5359 7510 CHAMISA STORM DRAIN SURGE POND ARE AS FOLLOWS -VIII. CONCLUSIONS 17167 0.39 $V_{100} = 145.850 \text{ CF} = 3.35 \text{ AC-FT}$ 5360 16390 $V_{10-DAY} = 4.63 AC-FT$ REVIEW OF THE AS-CONSTRUCTED CONDITIONS COMPARED WITH THE AS-APPROVED PLANS RESULTS IN THE 41082 LEGAL DESCRIPTION $Q_{100} = 132.2 \text{ CFS}$ FOLLOWING CONCLUSIONS: 31440 STORAGE CAPACITY = 4.67 AC-FT (INTERIM) AND 4.4 AC-FT (ULTIMATE) REQUIRED 82167 BY THE CHAMISA SD MASTER PLAN TRACT A, JAMES MONROE M.S./SUNSET VIEW E.S. THE EXISTING DRAINAGE EASEMENT ENCUMBERING THE SITE DATED APRIL 19, 2001 HAS BEEN VACATED BY 5362 50730 5. SPILLWAY CAPACITY = 132.2 CFS (INTERIM) STREET ADDRESSES: JAMES MONROE MIDDLE SCHOOL - 6100 PARADISE BLVD NW, DEVELOPMENT REVIEW BOARD ACTION 08DRB-70402 AND SUBSEQUENT PLAT OF TRACT A, JAMES MONROE 141769 3.25 GRADING AND DRAINAGE PLAN DATED DECEMBER 7, 2007 PREPARED BY BOHANNAN-HUSTON, INC. (BHI) FOR MIDDLE SCHOOL / SUNSET VIEW ELEMENTARY SCHOOL FILED 12/31/2008, BOOK 2008C, PAGE 266 ALBUQUERQUE NM 87114 5363 68475 PROTOTYPE ELEMENTARY SCHOOL NO. 2 (AKA SUNSET VIEW ELEMENTARY SCHOOL). THIS PLAN REPRESENTS SUNSET VIEW E.S. - 6121 PARADISE BLVD NW, THE AS-CONSTRUCTED IMPROVEMENTS LIE WITHIN THE NEW PUBLIC DRAINAGE EASEMENT CREATED BY 212766 A REFINEMENT TO THE ABOVE REFERENCED MASTER DRAINAGE REPORT AND ESTABLISHED THE FOLLOWING ALBUQUERQUE NM 87114 THE RECENTLY RECORDED PLAT OF RECORD REFERENCED ABOVE 73520 PERTINENT CRITERIA PERTAINING TO THE CHAMISA STORM DRAIN SURGE POND -THE FUTURE CHAMISA STORM DRAIN PROJECT WILL CONVERT THE INTERIM RETENTION BASIN TO A $V_{100} = 116,810 \text{ CF} = 2.68 \text{ AC-FT}$ SURVEY NOTE: $V_{AS-BUILT} = 4.88 \text{ AC-FT} \ge 4.67 \text{ AC-FT} = V_{DESIGN}$ PERMANENT PUBLIC DETENTION POND $V_{10-DAY} = 3.95 AC-FT$ THE AS-CONSTRUCTED POND HAS ADEQUATE CAPACITY TO SERVE THE SITE IN THE INTERIM CONDITION $Q_{100} = 132.1 \text{ CFS}$ THE AS-CONSTRUCTED POND HAS ADEQUATE CAPACITY TO SERVE THE SITE AND THE CONTRIBUTING THIS IS NOT A BOUNDARY SURVEY. DATA IS SHOWN FOR ORIENTATION ONLY. WORK ORDER CONSTRUCTION PLANS FOR THE CHAMISA MASTER STORM DRAIN SURGE POND (CPN 662382) AS-BUILT SPILLWAY CAPACITY WATERSHED IN THE ULTIMATE CONDITION BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE PLAT DATED DECEMBER 17, 2007 PREPARED BY HIGH MESA CONSULTING GROUP. THIS PLAN SET REPRESENTS THE AS-CONSTRUCTED POND SATISFIES THE SCHOOL DISTRICT'S OBLIGATIONS UNDER THE CHAMISA FOR THIS TRACT PREPARED BY HIGH MESA CONSULTING GROUP AND FILED BASIS FOR THIS SUBMITTAL AGAINST WHICH AS-CONSTRUCTED CONDITIONS ARE COMPARED TO THE A. RECTANGULAR WEIR CAPACITY (USING HAESTAD METHODS 6.0) STORM DRAIN COST SHARE AGREEMENT DECEMBER 31, 2008. THE AS-APPROVED DESIGN. THE INTERIM RETENTION POND HAS BEEN PROVIDED WITH AN OVERFLOW SPILLWAY TO SERVE UNTIL THE PLAT OF JAMES MONROE MIDDLE SCHOOL / SUNSET VIEW ELEMENTARY SCHOOL PREPARED BY HIGH MESA TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE PARTIAL POND IS CONVERTED TO A PERMANENT DETENTION POND WHEN THE OVERFLOW SPILLWAY IS PLANNED TO DEPTH CAPACITY CRESTWIDTH CONSULTING GROUP FILED DECEMBER 31, 2008 IN BOOK 2008C, PAGE 266. THIS RECORDED PLAT TOPOGRAPHIC SURVEY (AS-BUILT SURVEY) PREPARED BY HIGH MESA CONSULTING BE REMOVED BY SUBSEQUENT WORK ORDER (I.E. CHAMISA STORM DRAIN COST SHARE AGREEMENT) 1.0' 37.9 CFS DEMONSTRATES THAT THE PREVIOUS PUBLIC DRAINAGE EASEMENT UPON WHICH THE NEW SCHOOL GROUP, NMPS 11184, DATED JULY 17, 2007, FOR THE PURPOSE OF OBTAINING THE INTERIM OVERFLOW SPILLWAY HAS SUFFICIENT CAPACITY TO PASS THE 10-YEAR RAINFALL EVENT, 0.6' 27.1 CFS CONSTRUCTION ENCROACHED HAD BEEN VACATED AND REPLACED WITH A NEW PUBLIC DRAINAGE AS-BUILT INFORMATION FOR THIS PROJECT. RECORD INFORMATION VERIFIED BY BUT NOT THE 100-YEAR RAINFALL EVENT UNDER DEVELOPED CONDITIONS; A DPM VARIANCE IS REQUIRED AS EASEMENT COINCIDING WITH THE AS-CONSTRUCTED IMPROVEMENTS ASSOCIATED WITH THE ABOVE B. V-NOTCH WEIR CAPACITY (USING HAESTAD METHODS 6.0) - SOUTH END ONLY ENGINEER WAS OBTAINED UNDER DIRECT SUPERVISION OF JEFFREY G. A CONDITION FOR WORK ORDER ACCEPTANCE. REFERENCED WORK ORDER PLANS MORTENSEN NMPE 8547 ON DECEMBER 12, 2008 FOR THE PURPOSES OF NOTCH ANGLE VERIFYING AS-BUILT DATA ALONG THE SOUTHEAST EDGE OF THE POND AFTER 143.13° 3.7 CFS EXISTING CONDITIONS AND REQUIREMENTS BEING CORRECTED BY THE CONTRACTOR. C. TOTAL CAPACITY THE CHAMISA MASTER STORM DRAIN SURGE POND HAS BEEN CONSTRUCTED AS AN INTERIM RETENTION POND. IN THE Q CAP = (RECTANGULAR WEIR CAPACITY)+(V-NOTCH WEIR CAPACITY) STORM DRAIN NOTE: INTERIM CONDITION, IT SERVES ONLY THE APS PROPERTY. IN THE ULTIMATE CONDITION, IT WILL BE CONVERTED INTO = 37.9 + 27.1 + 3.7 = 68.7 CFS A DETENTION POND SERVING ADJACENT PROPERTIES IN ADDITION TO THE SCHOOL SITES. MAINTENANCE OF THE 48" RCP STORM DRAIN AND ITS APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING IN THE INTERIM CONDITION, THE POND NEEDS TO HAVE SUFFICIENT CAPACITY TO CONTAIN THE V10-DAY DEVELOPED SERVED. VOLUME OF RUNOFF GENERATED BY THE APS PROPERTY. 172,000 CF (3.95 AC-FT) BASED UPON THE BHI PLAN. IN THE ULTIMATE CONDITION, THE POND NEEDS TO HAVE SUFFICIENT CAPACITY TO CONTAIN 4.4 AC-FT BASED UPON THE HMCG MDP AND THE CHAMISA STORM DRAIN COST SHARE AGREEMENT. RIM=5367.24 RECORD DRAWING LEGEND 66.2_ THE AS-CONSTRUCTED STORAGE CAPACITY OF THE INTERIM RETENTION POND IS 191,660 CF (4.40 AC-FT). THIS INV(N)=5361.04 INV(S)=5360.89 CONDITION COMPARES FAVORABLY WITH THE REQUIRED DESIGNED (BHI) VOLUME OF 3.95 AC-FT. IN THE AS-CONSTRUCT RECORD INFORMATION (VERIFIED BY ENGINEER) CONSTRUCTED CONDITION. THE INTERIM RETENTION POND HAS EXCESS CAPACITY TO CONTAIN THE V10-DAY DEVELOPED. VOLUME OF RUNOFF GENERATED BY THE APS PROPERTY. THE V10-DAY DEVELOPED VOLUME OF RUNOFF CAN BE STORED AS-CONSTRUCTED = AS-DESIGNED BELOW THE MINIMUM ELEVATION OF THE INTERIM OVERFLOW SPILLWAY. (VERIFIED BY ENGINEER) THE INTERIM RETENTION POND REQUIRES A SPILLWAY CAPABLE OF PASSING THE Q100 DESIGN STORM IN THE FULLY RECORD INFORMATION (VERIFIED BY ENGINEER) DEVELOPED CONDITION, 125 CFS BASED UPON THE BHI PLAN. IN THE ULTIMATE CONDITION WHEN THE POND IS CONVERTED TO A PERMANENT DETENTION POND, AN EMERGENCY SPILLWAY IS NOT REQUIRED. RECORD INFORMATION (VERIFIED BY ENGINEER) RECORD INFORMATION (VERIFIED BY ENGINEER, THE SPILLWAY INTENDED TO SERVE ONLY THE INTERIM CONDITION IS CONSTRUCTED OF NATURAL ROCK RIP-RAP AT THE HISTORIC DISCHARGE POINT OF THE PROPERTY. THE DESIGN WIDTH FOR THE SPILLWAY IS 40 FEET AND A DEPTH OF CHAIN LINK FENCE 1.0 FEET. THE AS-CONSTRUCTED WIDTH IS 37 FEET WITH A DEPTH OF 0.6 FEET. THE CAPACITY OF THE AS-CONSTRUCTED HIGH DENSITY POLYETHYLENE SPILLWAY IS 69 CFS. THIS CONDITION DOES NOT COMPARE FAVORABLY WITH THE AS-DESIGNED CAPACITY OF 125 CFS MAN HOLE USING THE BHI PLAN FOR REFERENCE. REINFORCED CONCRETE PIPE STORM DRAIN STORM INLET TEMPORARY CHAIN LINK FENCE TOE OF SLOPE TOP OF SLOPE SPOT ELEVATION (VERIFIED BY SURVEYOR) DIRT POND **EXISTING CONTOUR** + 60.4 + 61.9 EXISTING MANHOLE + 60.8 RECORD DRAWING + 61.2 + 62.2 + 60.5 + 61.4 + 59.6 + 61.9 **Consulting Group** + 61.3 6010-B MIDWAY PARK BLVD. NE + 60.3 + 62.7 DIRT POND ALBUQUERQUE, NEW MEXICO 87109 PHONE: 505.345.4250 FAX: 505.345.4254 + 58.6 www.highmesacg.com 2007.186.3 十 59.7 DIRT POND DIRT POND CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP CHAMISA STORM DRAIN SURGE POND AT JAMES MONROE MIDDLE SCHOOL INV(W) = 5354.51BOTTÓM OF MH=5354.21 Design Review Committee City Engineer Approval DIRT N 89°50'27" W 1292.11 T.B.M. #1 ELEV.=5363.07 UNPLATTED TRACT UNPLATTED TRACT UNPLATTED TRACT UPC#101006438048610125 UPC#101006441348610130 UPC#101006444548610135 UNPLATTED TRACT UPC#101006447951010156 City Project No.

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