INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE FOOTHILLS AREA OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE SITE IS LOCATED ON THE NORTH SIDE OF BRENTWOOD HILLS BLED NE, EAST OF CHARLWOOD PARK BLVD. NE. THE PROPOSED IMPROVEMENTS CONSIST OF A NEW FREE-STANDING CLASSROOM BUILDING NEAR THE EAST END OF THE SITE. AT PRESENT. THE SITE GENERALLY DRAINS FROM EAST TO WEST AND EXHIBITS SIGNIFICANT TOPOGRAPHIC RELIEF ON THE WEST SIDE OF THE BUILDING SITE. ALL RUNOFF IS VIA SURFACE FLOW AND THERE ARE NO PUBLIC STORM DRAINS IN THE SITE OR ADJACENT CITY STREET. DUE TO THE INFILL STATUS, THE CONTINUED FREE DISCHARGE OF ONSITE RUNOFF TO THE ADJACENT STREET WILL BE MAINTAINED AND HAS BEEN ESTABLISHED BY PRIOR PLANS. DEVELOPED RUNOFF FROM MOST OF THE NEW BUILDING'S ROOF AREA WILL DISCHARGE DIRECTLY TO THE EAST TO AN EXISTING EMERGENCY ACCESS ROAD THAT WAS CONSTRUCTED WITH THE MOST RECENT PREVIOUS PHASE OF DEVELOPMENT WHICH DISCHARGES DIRECTLY TO THE ADJACENT PUBLIC STREET. THIS PLAN IS SUBMITTED FOR BUILDING PERMIT APPROVAL FOR THE PROPOSED NEW CLASSROOM BUILDING AT THE EAST END OF THE

II. PROJECT DESCRIPTION

AS SHOWN BY THE CITY ZONE ATLAS PAGE H-22, THE SITE LIES ON NORTH SIDE OF BRENTWOOD HILLS BLVD NE, EAST OF CHELWOOD PARK BLVD. NE. THE PROPERTIES TO THE SOUTH, EAST AND NORTH ARE SINGLE FAMILY RESIDENCES. THE SITE TO THE WEST IS A PUBLIC CITY PARK. THE SITE WAS PLATTED A FEW YEARS AGO AS PART OF THE PREVIOUS PHASES OF DEVELOPMENT. THE LEGAL DESCRIPTION OF THE SITE IS TRACT A, ONATE ELEMENTARY SCHOOL. AS INDICATED BY PANEL 357 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. THE NEAREST FLOOD HAZARD ZONE LIES 1/2 MILE DOWNSTREAM OF THE SITE IS AT THE INTERSECTION OF BRENTWOOD HILLS BLVD NE AND JUAN TABO BLVD NE.

III. BACKGROUND DOCUMENTS & RESEARCH

THE FOLLOWING DOCUMENTS WERE REVIEWED AND REFERENCED IN THE PREPARATION OF THIS DRAINAGE NARRATIVE:

A. GRADING AND DRAINAGE PLAN - ONATE ELEMENTARY SCHOOL DATED 12-30-1983 BY HIGH MESA CONSULTING GROUP (FORMERLY TOM MANN & ASSOCIATES). THIS GRADING PLAN SUPPORTED CONSTRUCTION OF THE GYMNASIUM BUILDING. THIS PLAN IDENTIFIED THE SITE DRAINAGE PATTERNS THAT STILL EXIST TODAY WHEREBY THE NORTHERN PORTION OF THE SITE HAS A GRADED FLOWLINE RUNNING FROM EAST TO WEST TO THE NORTHWEST CORNER OF THE SITE WHERE IT IS FORCED TO TURN SOUTH BY A CURB LOCATED AT THE WEST EDGE OF THE SITE AND GRADUALLY FLOW SOUTH TO THE

ONATE ELEMENTARY SCHOOL DRAINAGE STUDY DATED 04-22-1992, CITY HYDROLOGY FILE H22/D035, BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES) AND UPDATED 01-04-1994. THIS STUDY IDENTIFIED SEVERAL SITE AREAS WHERE POORLY DEFINED DRAINAGE PATTERNS RESULTED IN AREAS OF EROSION AND STANDING WATER WHICH RESULTED IN SITE MAINTENANCE AND PEDESTRIAN ACCESS PROBLEMS. RECOMMENDATIONS WERE PRESENTED AND PHASE I OF THE IMPROVEMENTS INCLUDED CONSTRUCTION OF A NEW PAVED TRACK AT THE WEST END OF THE SITE THAT ALSO SERVES AS A DRAINAGE CONVEYANCE TO CARRY SITE FLOWS SOUTH TO BRENTWOOD HILLS VIA NEW SIDEWALK CULVERTS CONSTRUCTED AS PART OF THE PHASE I PROJECT.

C. GRADING AND DRAINAGE PLAN - ONATE ELEMENTARY SCHOOL KITCHEN DATED 01-31-2001, CITY HYDROLOGY FILE H22/D035, BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES). THIS PLAN SUPPORTED AN ADDITION TO THE KITCHEN. IT REFERENCES AND CONFORMS TO THE PREVIOUSLY APPROVED PLANS.

D. CONSTRUCTION PLANS FOR ONATE ELEMENTARY SCHOOL ACCESS IMPROVEMENTS DATED 4-26-2007 BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES). THIS PLAN SET DESIGNED THREE IMPROVEMENTS BID LOTS OF WHICH TWO WERE CONSTRUCTED. THE NEW IMPROVEMENTS INCLUDED A DRIVEPAD FOR SERVICE ACCESS TO THE PLAYGROUND. DRAINAGE AND EROSION CONTROL WORK ON THE WEST SIDE OF THE NORTHWESTERNMOST BUILDING, AND ALSO ADA ACCESS IMPROVEMENTS FROM THE CENTER OF THE CAMPUS TO THE PLAYGROUND / FIELD AREA. THE THIRD BID LOT WAS DESIGNED TO PROVIDE ADA ACCESS AND DRAINAGE IMPROVEMENTS IN THE SLOPED TRANSITION AREA EAST OF THE MAIN BUILDING AND WEST OF THE PORTABLE CLASSROOM AREA. THIS PROJECT INCLUDED CONSTRUCTION OF A CONCRETE RUNDOWN CHANNEL THAT FLOWS FROM NORTH TO SOUTH ALONG THE EAST EDGE OF THE EXISTING MAIN CLASSROOM BUILDING. THIS RUNDOWN CHANNEL IS THE PROGRAMMED OUTFALL FOR RUNOFF FORM THE CURRENTLY PROPOSED CLASSROOM BUILDING.

E. ONATE ELEMENTARY SCHOOL PRIVATE FIRE ROAD AND ACCESS IMPROVEMENTS DATED 03/15/2010. CITY HYDROLOGY FILE H22/D035, ENGINEER'S CERTIFICATION DATED 12/01/2010. THIS PLAN SET INCLUDED THE THIRD BID LOT IMPROVEMENTS IDENTIFIED BY THE AFOREMENTIONED ACCESS IMPROVEMENTS PLAN SET (REFERENCE D). AND ALSO A NEW PERIMETER EMERGENCY ACCESS ROAD THAT ALSO SERVED TO IMPROVE INTERNAL SITE DRAINAGE AND ELIMINATE PREVIOUS EROSION PROBLEMS. THESE IMPROVEMENTS WERE CONSTRUCTED TO SUPPORT THE NEW KINDERGARTEN CLASSROOM BUILDING THAT IS CURRENTLY UNDER CONSTRUCTION.

GRADING AND DRAINAGE PLAN - ONATE ELEMENTARY SCHOOL KINDERGARTEN CLASSROOM DATED 6/17/2010 (H-22/D035) BY HIGH MESA CONSULTING GROUP. THIS PLAN WAS PREPARED AND SUBMITTED TO SUPPORT CONSTRUCTION OF A NEW KINDERGARTEN CLASSROOM BUILDING. IMMEDIATELY TO THE NORTH OF THE CURRENTLY PROPOSED CLASSROOM BUILDING. THIS PROJECT IS CURRENTLY UNDER CONSTRUCTION.

IV. EXISTING CONDITIONS

AT PRESENT. THE SITE IS DEVELOPED IS AN ACTIVE ELEMENTARY SCHOOL SITE CONTAINING PERMANENT AND PORTABLE BUILDINGS ALONG WITH PAVED PARKING, PLAYGROUND AND FIELD IMPROVEMENTS, AND LANDSCAPING. THE SITE GENERALLY SLOPES FROM NORTHEAST TO SOUTHWEST DISCHARGING RUNOFF TO THE ADJACENT CITY STREET, BRENTWOOD HILLS BLVD NE. NO APPARENT OFFSITE FLOWS ENTER THE SITE FROM THE RESIDENTIAL PROPERTIES THAT SURROUND THE UPHILL (NORTH AND EAST) SIDES OF THE SITE WHICH HAVE BLOCK WALLS PREVENTING RUNOFF FROM IMPACTING THE SITE.

THE NEW CLASSROOM BUILDING PROPOSED HEREIN WILL BE LOCATED AT THE EAST END OF THE SITE WHICH IS THE SITE'S HIGH POINT FROM WHICH DRAINAGE GENERALLY FLOWS FROM EAST TO WEST. THIS SITE PREVIOUSLY CONTAINED PORTABLE CLASSROOMS THAT WERE RELOCATED IN 2010 IN ANTICIPATION OF THIS PROJECT. RUNOFF FROM THIS AREA CURRENTLY DRAINS FROM EAST TO WEST, WHERE IT IS INTERCEPTED BY A CONCRETE RUNDOWN CHANNEL CONSTRUCTED IN 2010 TO SERVE THIS AREA (REFERENCE E) THAT FLOWS FROM NORTH TO SOUTH, TO THE EXISTING PARKING LOT WHICH DRAINS OUT TO BRENTWOOD HILLS BLVD THROUGH THE EXISTING DRIVEPADS.

THERE IS AN EXISTING PAVED PARKING LOT IMMEDIATELY SOUTH OF THE PROPOSED BUILDING SITE. THIS PARKING LOT DRAINS FROM EAST TO WEST WITH RUNOFF DISCHARGING TO BRENTWOOD HILLS BLVD NE VIA EXISTING DRIVEPAD.

V. DEVELOPED CONDITIONS

THE PROPOSED CLASSROOM ADDITION WILL BE LOCATED IN AN AREA THAT PREVIOUSLY HAD PORTABLE CLASSROOMS AND ASSOCIATED PAVED WALKWAYS. THE NEW BUILDING WILL HAVE ROOF DRAINS DISCHARGING THE MAJORITY OF ROOF DRAINAGE DIRECTLY TO THE EAST TO THE EXISTING EMERGENCY ACCESS ROAD WHICH IS PAVED WITH CURB AND GUTTER AND CARRIES RUNOFF TO BRENTWOOD HILLS BLVD. THE BUILDING SITEWORK WILL INCLUDE CONCRETE WALKWAYS, A PLAZA AREA, AND LANDSCAPING IMPROVEMENTS ON THE NORTH AND WEST SIDES OF THE BUILDING. THE NEW BUILDING SITEWORK WILL DRAIN FROM EAST TO WEST TO AN EXISTING SLOPED AREA (5 FT. VERTICAL FALL OVER 20 FT. HORIZONTAL, 5:1 SLOPE) THAT DRAINS DOWN TO THE WEST TO THE EXISTING CONCRETE RUNDOWN CHANNEL THAT DIVERTS RUNOFF TO THE SOUTH. AS DESCRIBED BY THE FOLLOWING, THIS SLOPED AREA WILL BE LANDSCAPED IN A TERRACED MANNER THAT IS DESIGNED TO ACCEPT RUNOFF FORM THE SITE. TWO SMALL ROOF AREAS WILL HAVE PIPED ROOF DRAINS THAT WILL DISCHARGE DIRECTLY TO THIS LANDSCAPED AREA INTENDED TO SATISFY THE INTENT OF WATER QUALITY REQUIREMENTS THIS PROJECT ALSO INCLUDES RECONSTRUCTION OF THE EXISTING PAVED PARKING LOT SOUTH OF THE BUILDING. THE PARKING LOT WILL CONTINUE TO DRAIN FROM EAST TO WEST, HOWEVER, SITE RUNOFF WILL NOW BE INTERCEPTED BY A PROPOSED STORM INLET THAT WILL DRAIN INTO A WATER QUALITY BASIN LOCATED AT THE SOUTH END OF THE PROPOSED LANDSCAPED AREA.

AS PREVIOUSLY DESCRIBED, THERE IS A 20 FT. WIDE AREA THAT SLOPES DOWN TO THE DRAINAGE RUNDOWN AT A 5:1 SLOPE. THIS SLOPE WILL BE LANDSCAPED AT THE CONCLUSION OF THIS PROJECT WITH A TERRACED CONCEPT INTENDED TO ACCEPT RUNOFF FROM THE NEW PROJECT AND MEET THE INTENT OF WATER QUALITY AND FIRST FLUSH REQUIREMENTS THERE WILL BE NUMEROUS POCKETS TO RETAIN WATER. AND RUNOFF THAT DOES NOT INFILTRATE OR RETAIN WILL OVERFLOW TO THE EXISTING DRAINAGE RUNDOWN. THIS AREA WILL HAVE NATURAL ROCK RETAINING WALLS AND FLAT STONE PLATING MIXED WITH AREAS OF CRUSHER FINES. DUE TO THE NATURE OF LANDSCAPING IMPROVEMENTS, IT IS DIFFICULT TO QUANTIFY THE PRECISE VOLUME OF RETENTION AND INFILTRATION, HOWEVER, THE PROPOSED SCHEME IS INTENDED TO MFFT THE INTENT OF CITY FIRST FLUSH WATER QUALITY REQUIREMENTS. A COPY OF THE LANDSCAPING PLAN WHICH INCLUDES DETAILED GRADING INFORMATION IS PROVIDED HEREWITH FOR INFORMATIONAL PURPOSES.

VI. GRADING PLAN

THE GRADING PLAN SHOWS THE 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. THE LIMITS OF EXISTING DRAINAGE BASINS SHALL REMAIN THE SAME.

VII. 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 IMPROVEMENTS WILL RESULT IN A SLIGHT INCREASE (0.4 CFS) IN THE DEVELOPED RUNOFF GENERATED BY THIS PORTION OF THE SITE.

ALTHOUGH THERE WILL BE A SLIGHT INCREASE IN RUNOFF AS COMPARED TO THE EXISTING (BARE SOIL) CONDITION, THE OVERALL NET IMPACT WILL BE OFFSET BY THE FACT THAT THIS AREA WAS MOSTLY IMPERVIOUS PAVING AND PORTABLE CLASSROOM BUILDINGS IN THE PRE-2010 CONDITION. ADDITIONALLY, THERE WILL BE AN UNQUANTIFIED AMOUNT OF RETENTION IN THE TERRACED LANDSCAPING AREA THAT WILL FURTHER REDUCE RUNOFF

VIII. CONCLUSIONS

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

- 1. THE PROPOSED IMPROVEMENTS REPRESENT MODIFICATIONS TO AN EXISTING SITE WITHIN AN INFILL AREA 2. THE PROPOSED IMPROVEMENTS WILL MAINTAIN AND NOT ALTER THE EXISTING DRAINAGE PATTERNS OF THE SITE. 3. THE FREE DISCHARGE OF DEVELOPED RUNOFF TO THE ADJACENT CITY STREETS IS CONSISTENT WITH THE PREVIOUSLY
- APPROVED PLANS FOR THE SCHOOL SITE. 4. THE PROPOSED IMPROVEMENTS WILL RESULT IN A NEGLIGIBLE GROSS INCREASE IN THE DEVELOPED RUNOFF
- GENERATED BY THIS SITE THAT WILL BE OFFSET BY LANDSCAPED AREA RETENTION 5. THE PROPOSED IMPROVEMENTS WILL RESULT IN A SLIGHT DECREASE IN THE DEVELOPED RUNOFF AS COMPARED TO
- 6. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE
- 7. THE PROPOSED IMPROVEMENTS WILL NOT BLOCK POTENTIAL OFFSITE FLOWS

CALCULATIONS

I. <u>SITE CHARACTERISTICS</u> A. PRECIPITATION ZONE = B. P_{6,100} = P₃₆₀ = C. TOTAL PROJECT AREA $(A_T) = 26,100$ SF

D. LAND TREATMENTS

1. EXISTING LAND TREATMENT

AREA (SF/AC) 16.615 / 0.38 9,485 / 0.22 2. DEVELOPED LAND TREATMENT TREATMENT AREA (SF/AC)

II. HYDROLOGY

A. EXISTING CONDITION

a. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ ((0.00*0.8) + (0.00*1.08) + (0.38*1.46) + (0.22*2.64))/0.60 =(1.89/12)0.60 =0.0943 AC-FT =b. PEAK DISCHARGE $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_P = Q_{100} = ((0.00*2.2) + (0.00*2.92) + (0.38*3.73) + (0.22*5.25)) =$ 2.6 CFS

21,150 / 0,49

B. DEVELOPED CONDITION

a. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ ((0.00*0.8) + (0.00*1.08) + (0.11*1.46) + (0.49*2.64))/0.60 =(2.42/12)0.60 = 0.1206 AC-FT = $V_{100} = (E_W/12)A_T =$ b. PEAK DISCHARGE $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_P = Q_{100} = ((0.00*2.2) + (0.00*2.92) + (0.11*3.73) + (0.49*5.25)) =$

C. COMPARISON

a. VOLUME b. PEAK DISCHARGE $\Delta Q_{100} = 3.0 - 2.6 =$ 0.4 CFS (INCREASE)

IGINEER'S CERTIFICATION FOR FINAL C.O.

ENGINEER'S CERTIFICATION FOR PERMANENT C.O. I, J. GRAEME MEANS, NMPE 13676, HEREBY CERTIFY THAT THE PREVIOUSLY IDENTIFIED DEFICIENCIES HAVE BEEN CORRECTED AS NOTED BY THE FOLLOWING AND CERTIFY THIS SITE FOR PERMANENT CERTIFICATE OF OCCUPANCY FOR HYDROLOGY PURPOSES:

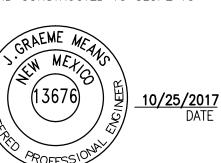
1) THE SOUTHWEST WATER QUALITY BASIN HAS BEEN CONSTRUCTED AND IS LARGER AND DEEPER THAN DESIGNED. ADDITIONALLY, AN OVERFLOW NOTCH HAS BEEN BUT INTO THE WEST CURB TO CONTROL OVERFLOW. 2) THE NORTHEAST ROOF DRAIN RUNDOWN HAS BEEN RECONSTRUCTED TO NO LONGER OBSTRUCT THE OUTLET PIPE, AND A NEW RUNDOWN HAS BEEN CONSTUCTED THAT CONVEYS FLOWS TO THE NORTH WITH POSITIVE SLOPE TO A

3) AN ADDITIONAL STORM INLET HAS BEEN CONSTRUCTED AT THE WEST END OF THE PARKING LOT TO CAPTURE FIRST FLUSH RUNOFF IN ACCORDANCE WITH THE INTENT OF THE PLAN.

IN ADDITON TO THE PRECEDING, IT IS NOTEDED HEREIN THAT THE WALL OPENING DESIGNED AT THE NORTHWEST CORNER OF THE MECHANICAL YARD WAS DELETED BECAUSE THE YARD WAS RAISED AND CONSTRUCTED TO SLOPE TO THE SOUTHEAST CORNER OF THE YARD, MAKING THE WALL OPENING UNNECESSARY.



NEW OUTFALL TO THE ROADWAY.



ENGINEER'S CERTIFICATION FOR TEMPORARY C.O.

I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP HEREBY CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED, GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLANS DATED 11-19-2015 WITH A FEW NOTED EXCEPTIONS THAT NEED TO BE CORRECTED PRIOR TO ISSUANCE OF PERMANENT CERTIFICATE OF OCCUPANCY. THESE EXCEPTIONS DO NOT IMPACT THE SITE TO THE EXTENT THAT A TEMPORARY CERTIFICATE OF OCCUPANCY SHOULD BE WITHELD.

THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT WAS OBTAINED 08-24-2017 BY HIGH MESA CONSULTING GROUP UNDER THE DIRECTION OF CHARLES CALA, NMPS 11184, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED TO SUPPORT A TEMPORARY CERTIFICATE OF OCCUPANCY FOR THE ONATE ELEMENTARY SCHOOL CLASSROOMS AND DOES NOT REPRESENT A CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY.

THE FOLLOWING ITEMS REQUIRE CORRECTION OR ADDITIONAL VERIFICATION PRIOR TO ENGINEER'S FINAL CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY:

THE SOUTHEAST WATER QUALITY BASIN AREA WAS UNDER CONSTRUCTION DURING TIME OF CERTIFICATION. THIS AREA WILL NEED TO BE COMPLETED PER

2) THE NORTHERNMOST 6" ROOF DRAIN LOCATED ON THE EAST SIDE OF THE BUILDING WAS INSTALLED LOWERED THAN DESIGNED AND EMBEDDED INTO THE CONCRETE RUNDOWN. THIS CONDITION WILL NEED TO BE CORRECTED TO NOT BE EMBEDDED WITHIN RUNDOWN AND STILL HAVE POSITIVE DRAINAGE TO THE ADJACENT ROAD. THIS WILL BE ACCOMPISHED BY CONSTRUCTING A NEW RUNDOWN THAT DISCHARGES TO A POINT APPROXIMATELY 24 FEET TO THE NORTH ALONG THE

3) THE EAST-WEST FLOWLINE IN THE SOUTH PARKING LOT LACKS DEFINITION AND IT DOES NOT APPEAR THAT PARKING LOT RUNOFF WILL BE CAPTURED BY THE INLET FOR FIRST FLUSH PURPOSES AS INTENDED. THIS AREA WILL BE FLOW TESTED AND IF NECCESARY WILL REQUIRE CORRECTION.

UPON CORRECTION OF THE PRECEDING, A VERIFICATION SURVEY AND CERTIFICATION WILL BE PROVIDED FOR PERMANENT CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THIS CERTIFICATION DOES NOT ADDRESS ADA COMPLIANCE WHICH IS BEYOND THE SCOPE OF GRADING AND DRAINAGE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



LEGEND INVFRT ASPHAI BUILDING OVERHANG TOP OF ASPHALT PAVEMENT BLOCK WALL CURB AND GUTTER TOP OF CURB COMMUNICATION LINE BY TOP OF GRATE PAINT MARK SECURITY CAMERA FLOWLINE CONCRETE CURB CONCRETE DRIVE PAD EXISTING SPOT ELEVATION + 20.05 ANDSCAPING CRUSHER FINES CAST IRON PIPE PROPOSED SPOT ELEVATION CENTERLINE DOOR FOR CURRENT CONSTRUCTION CHAIN LINK FENCE PROPOSED SPOT ELEVATION CONCRETE LANDING EXISTING FLOWLINE ____。。。 I FANOLIT PROPOSED FLOWLINE CONC CONCRETE CURB OPENING EXISTING CONTOUR CONCRETE RAMP CONCRETE RUNDOWN PROPOSED CONTOUR CONCRETE RETAINING WALL EXISTING DIRECTION OF FLOW CONCRETE STEPS CONCRETE SIDEWALK PROPOSED DIRECTION OF FLOW — — — — RIGHT OF WAY LINE PAINTED YELLOW DOUBLE STRIPE ELECTRIC LINE BY PAINT MARK — — PUBLIC EASEMENT LINE EDGE OF ASPHALT FIRF HYDRANT HIGH POINT / DIVIDE FI OWI INF GAS LINE BY PAINT MARK ———SD——— PROPOSED STORM DRAIN GAS METER WITH PRESSURE REGULATOR VALVE PROPOSED INFILTRATION PIT GAS SERVICE METER CAN WITH GAS VALVE EXISTING STORM DRAIN MANHOLE HANDICAPPED ACCESS SIGN EXISTING FIRE HYDRANT METER CAN WITH BIB VALVE PROPOSED FIRE HYDRANT METAL HAND RAIL METAL LIGHT POLE ON FIRE DEPARTMENT CONNECTION CONCRETE BASE EXISTING SANITARY SEWER MANHOLE **MOUNTABLE** OVERHEAD MAST SANITARY SEWER MANHOLE LECTRIC PEDESTALS PAINTED PARKING STALL STRIPE EXISTING VALVE BOX POLYVINYL CHLORIDE PIPE PROPOSED VALVE BOX ASPHALT PAVING PATCH BUILDING ROOF DRAIN EXISTING DOUBLE CLEANOUT LANDSCAPING RIVER ROCK SANITARY SEWER PROPOSED DOUBLE CLEANOUT SANITARY SEWER LINE BY EXISTING SINGLE CLEANOUT PAINT MARK STORM DRAIN PROPOSED SINGLE CLEANOUT STEEL GUARD POS EXISTING WATER SERVICE SIDFWALK EXISTING WATER LINE SIDEWALK CULVERT TOP OF ASPHALT PROPOSED WATER LINE TOP OF CURB TOP OF CONCRETE EXISTING SANITARY SEWER LINE TURNDOWN SIDEWALI PROPOSED SANITARY SEWER LINE ——SAS—— TOP OF GRATE LECTRIC TRANSFORMER EXISTING FIRE LINE RAFFIC SIGN TOP OF WALL —F—P— PROPOSED FIRE LINE EXISTING POST INDICATOR VALVE ----VITRIFIED CLAY PIPE WATER LINE BY PAINT MARK PROPOSED POST INDICATOR VALVE WATER FAUCET WATER HOT BOX PROPOSED CONCRETE WATER METER BOX WATER VAULT WATER VALVE BOX PAINTED UTILITY MARKER PROPOSED ASPHALT PAVING TREE TRUNK DIAMETER PROPOSED LANDSCAPE AREA PROPOSED RETAINING WALL CONIFEROUS TREE PROPOSED BASIN BOUNDARY SMALL CONIFEROUS TREE

WATER LINE **CONSTRUCTION NOTES:**

BOULDER RETAINING WALL

DECIDUOUS TREE

FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 DR18 PIPE. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC. WATER LINE SHALL HAVE A MINIMUM COVER OF 3'-0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDÈNTAL TO CONSTRUCTION, THEREFÓRE, NO

SEPARATE PAYMENT WILL BE MADE. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATER LINE CONSTRUCTION THEREFORE NO

SEPARATE PAYMENT WILL BE MADE. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE LINES. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL E

MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO

TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

NEW WATER LINE INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICE BOXES AT JUNCTIONS AND TEES. TRACER VIRE SHALL BE ACCESSIBLE AT ALL VALVES, BACKFLOW PREVENTERS AND SERVICES. TRACER WIRE NSTALLATION SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL

SANITARY SEWER **CONSTRUCTION NOTES:**

ALL SEWER PIPE SHALL BE PVC (DWV)

SLOPES SHOWN ARE BASED ON TRUE DISTANCES THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL

OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO FRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE. NEW SANITARY SEWER LINE INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIR INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICE BOXES AT JUNCTIONS AND TEES. TRACER WIRE SHALL BE ACCESSIBLE AT ALL CLEANOUTS AND SERVICES. TRACER WIRE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

NATURAL GAS CONSTRUCTION NOTES:

ALL NATURAL GAS LINES SHALL BE INSTALLED USING PIPE AND FITTING MATERIALS PER PLUMBING

SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS. AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO

TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING. SUPPORTING AND REPLACING, IF DAMAGED. ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO

TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE. NEW NATURAL GAS INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICE BOXES AT JUNCTIONS AND TEES. TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVES AND RISERS. TRACER WIRE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

GENERAL NOTES

CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON. BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION -1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, SCHOOL FILES OF THE ALBUQUERQUE PUBLIC SCHOOLS FACILITIES, DESIGN AND CONSTRUCTION, COA/ABCWUA DISTRIBUTION MAPS AND UTILITY LINE-SPOTS PROVIDED BY ONPOINT UTILITY LOCATING SERVICES, SITE UTILITY DIAGRAM DATED FEBRUARY 23, 2015. IN ADDITION UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NO. 2015082003) UTILITY LINES THAT APPEAR ON THESE DRAWINGS 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 RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE O LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING

THESE LINES AND FACILITIES. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY TH FNGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT

PROPERTIES DURING CONSTRUCTION.

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

ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH. 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

CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN 7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MÁY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER 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.

10. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FÉDERAL HIGHWAY ADMINISTRATION, LATEST EDITION. . IF THE REMOVAL OF EXISTING CURB AND GUTTER. SIDEWALK. AND/OR PAVING IS REQUIRED. THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVÉMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK TH EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH IS DAMAGED OR DISPLACED BY THE

CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINÉD 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. 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. 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

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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND/OR INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASÉMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES OR IMPROVEMENTS. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING SUPPORTING AND REPLACING, IF DAMAGED, ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT

18. ALL DIMENSIONS AND RADII OF CURB, CURB RETURNS, AND WALLS ARE SHOWN TO THE FACE OF CURB AND/OR WALL. 19. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO STRIPING SO THAT LAYOUT CAN BE VERIFIED. 20. 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 WHEN APPLICABLE, CONTRACTOR SHALL SECURE, ON BEHALF OF THE OWNER AND OPERATORS, "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.

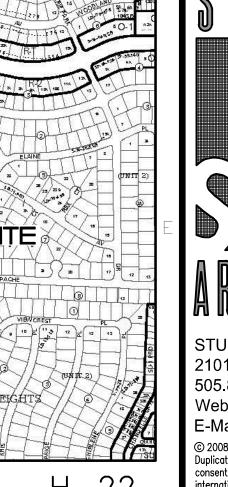
ALL FILL SHALL BE CLEAN, FREE FROM VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS, AND SHALL NOT BE CONTAMINATED WITH HYDROCARBONS OR OTHER CHEMICAL CONTAMINANTS. 3. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTION REQUIREMENT IS

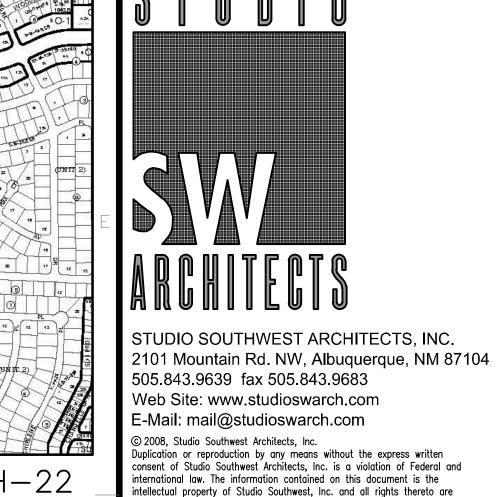
OTHERWISE SPECIFIED. . CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION. TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS.

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER

200 t 210 t 220 t

SCALE: 1" = 750'

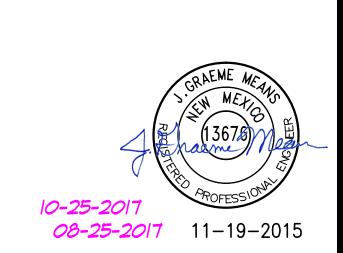




Reserved. For exceptions, refer to the Owner-Architect Agreement. **CONSULTANTS**



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



LEGAL DESCRIPTION

TRACT A, ONATE ELEMENTARY SCHOOL (2010C-128, FILED 11/16/2010, DOCUMENT # 2010116363)

PANEL 357G

BENCHMARKS

F.I.R.M.

SCALE: 1" = 500'

PROJECT BENCHMARKS - NAD 1983/NGVD 1929 A 3 1/4" ALUMINUM DISK STAMPED "12-H22 1989" (HORIZONTAL), SET FLUSH IN THE TOP OF CURB 171 FEET WEST OF THE INTERSECTION OF MENAUL BOULEVARD AND MARIE PARK DRIVE N.E.

PROJECT ELEVATION = 5776.23 FEET (NGVD 1929) A CHISELED "[]" (VERTICAL), ON TOP OF CURB AT THE SOUTHEAST CORNER OF THE SITE, AS SHOWN ON THIS SHEET (TEMPORARY BENCHMARK SET BY PREVIOUS SURVEY). ELEVATION = 5770.44 FEET (NGVD 1929)

TEMPORARY BENCHMARK #1 (T.B.M.) A MAG NAIL WITH WASHER SET IN CURB, AS SHOWN ON

ELEVATION = 5766.00 FEET (NGVD 1929)TEMPORARY BENCHMARK #2 (T.B.M.)

ELEVATION = 5778.827 FEET (NAVD 1988)

A MAG NAIL WITH WASHER SET IN CONCRETE, AS SHOWN ON THIS SHEET. ELEVATION = 5765.31 FEET (NGVD 1929)

IONATE E.S.

12415 BRENTWOOD HILLS, NE ALBUQUERQUE, NM



¹ Key Plan

AS-BUILT & CERTIFY 10/17 AS-BUILT & CERTIFY

MARK | DATE | DESCRIPTION

DRAINAGE PLAN AND

CALCULATIONS

PROJECT NO:

CAD DWG FILE

CHECKED BY:

SHEET TITLE

DRAWN BY:

100% SUBMITTAL

150071_C-001

NOVEMBER 19, 2015

S.C.C./J.Y.R.

G.M.

INDEX OF CIVIL DRAWINGS

DESCRIPTION SHEET

DRAINAGE PLAN AND CALCULATIONS GRADING PLAN

GRADING AND DRAINAGE SECTIONS AND DETAILS

WATER, SANITARY SEWER AND NATURAL GAS UTILITY SITE PLAN MINI WORK ORDER FIRE PROTECTION IMPROVEMENTS

RECORD DRAWING

CU-501 WATER AND SANITARY SEWER SECTIONS AND DETAILS

2015.007.1