ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

CONSTRUCTION PLANS FOR

PINO DAM ROUGH GRADING

ALBUQUERQUE, NEW MEXICO

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2	SURVEY CONTROL SHEET
3	GENERAL NOTES SHEET
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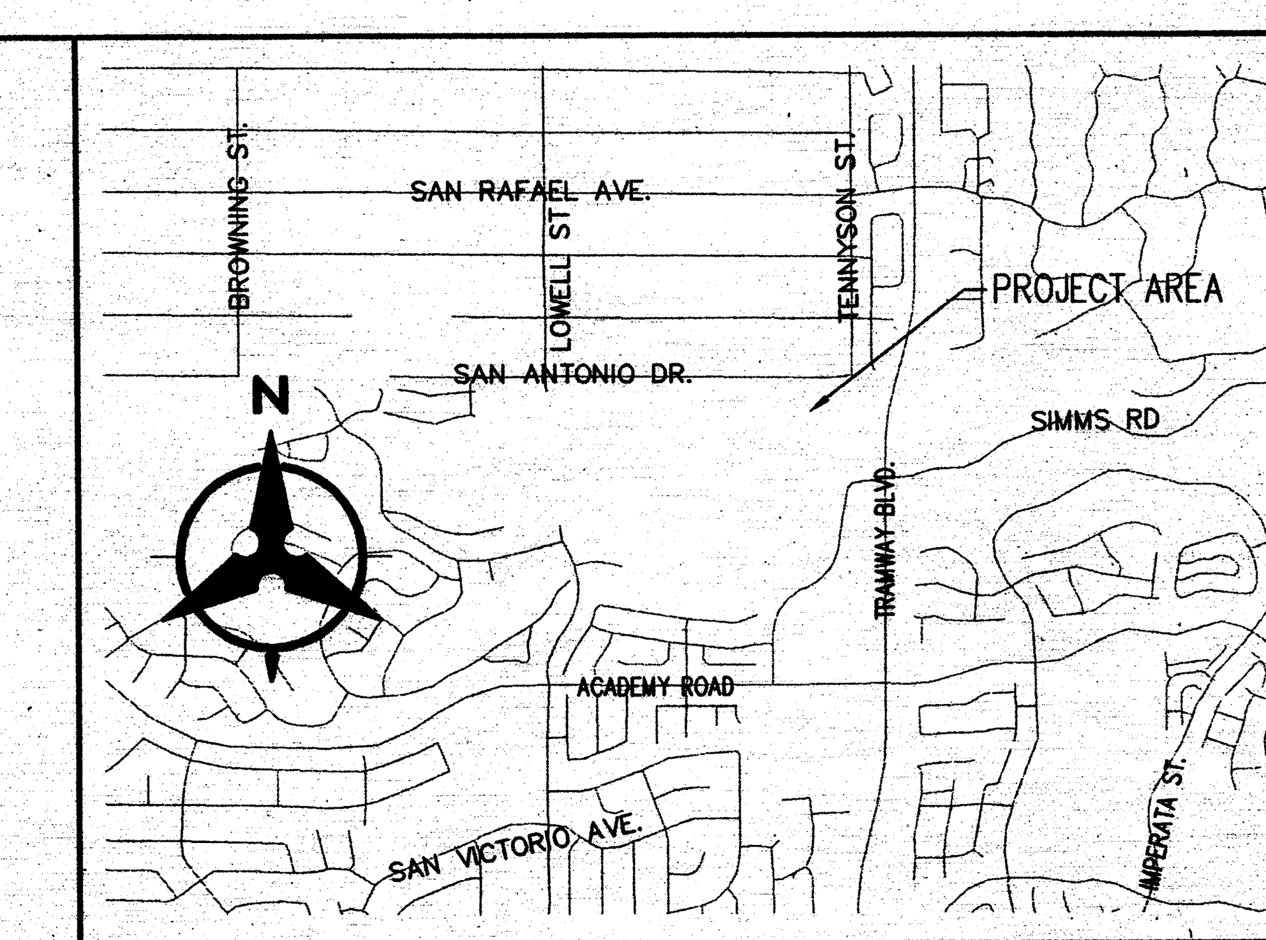

VICINITY MAP

PROPERTIES OF PINO DAM

1. EARTH FILLED DAM.
2. HIGH HAZARD POTENTIAL CLASSIFICATION.
3. MAXIMUM HEIGHT ABOVE THE DOWNSTREAM TOE IN FEET = 68
4. MAXIMUM LENGTH IN FEET = 2000
5. CREST WIDTH IN FEET ~15ft.
6. SLOPE OF UPSTREAM FACE: 2.5:1
7. SLOPE OF DOWNSTREAM FACE: 2:1
8. MINIMUM ELEVATION OF THE SPILLWAY CREST ~ 5982.75 ft.
MINIMUM ELAVATION OF DAM CREST ~ 5994.04 ft.
9. ELEVATION OF OUTLET TOWER ~ 5942.75ft.
10. FREEBOARD IN FEET 11.26')
11. MAXIMUM SPILLWAY DISCHARGE CAPACITY IN CUBIC FEET PER SECOND
~ 30,620 cfs @ 5994' (EXCLUDING OUTLET CONDUIT).
12. TYPE OF OUTLET CONDUIT 1-36" RCP WITH PORTED RISER
13. OUTLET CONDUIT DISCHARGE CAPACITY IN CUBIC FEET PER SECOND ~ 218 cfs
14. LOCATION OF THE OUTLET WORKS INTAKE STRUCTURE:
X = 1565477.13
Y = 1512977.09

APPROVED FOR ROUGH GRADING ONLY:

JERRY M. LOVATO P.E. 5/20/2011
EXECUTIVE ENGINEER DATE

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

RECEIVED APR 06 2012 HYDROLOGY SECTION

ALAN GREN ETLANTUS NEW MEXICO 16096 5-19-11 PROFESSIONAL ENGINEER

Bohannan ▲ Huston INC

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

Zone Atlas No.	Sheet	Of
E-22-Z	1	4

BHI JOB NO. 060297

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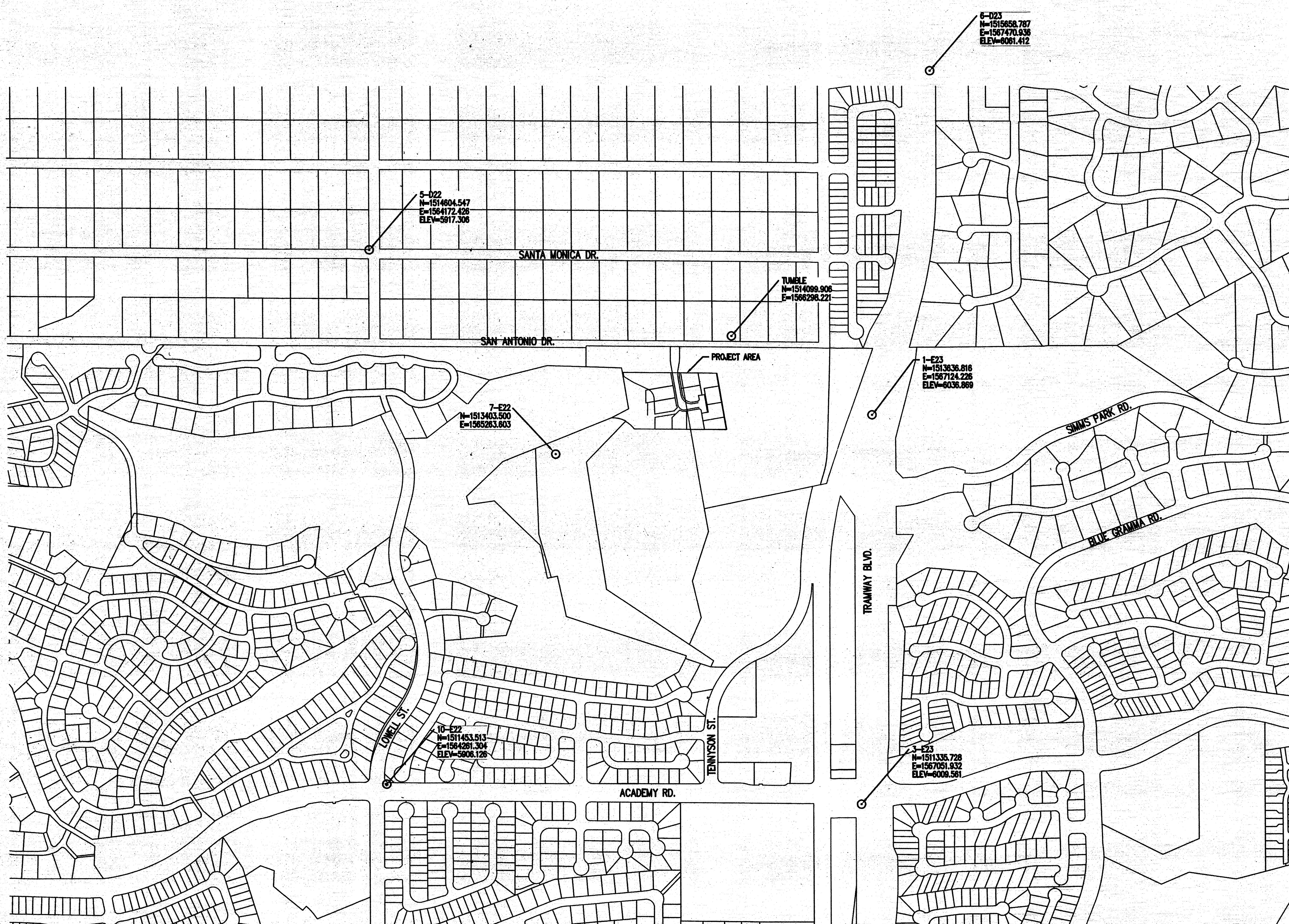

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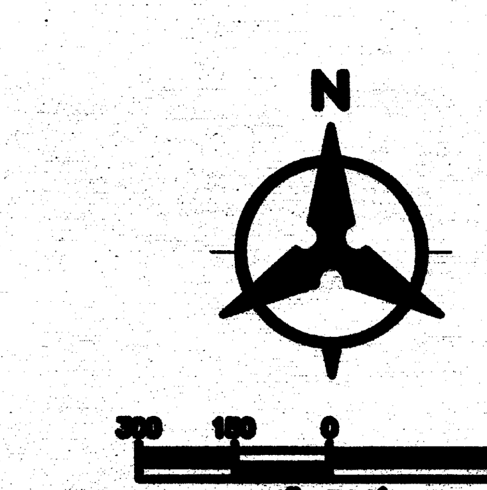

AS-BUILT INFORMATION

CONTRACTOR — DATE

DATE

DATE

DATE

DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE

NO.

BENCH MARKS

CITY OF ALBUQUERQUE "1-E23"

GEOGRAPHIC POSITION (NAD 1983)

MODIFIED NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE)

N = 1513636.816 E = 1567124.226

GROUND TO GRID FACTOR = 0.999621355

DELTA ALPHA = -0°08'32.41"

NAVD 1988 ELEVATION = 6036.869

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

SURVEYOR'S SEAL

ROBERT GROMATZKY NEW MEXICO 16469 PROFESSIONAL SURVEYOR

No.	Date	REMARKS	By

REVISIONS

DESIGN

Designed By: AE DATE: 05/11

Drawn By: AR DATE: 05/11

Checked By: CH DATE: 05/11

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

PINO DAM ROUGH GRADING

SURVEY CONTROL PLAN

DRAWING NO.	MAP NO. E-22-Z	SHEET 2	OF 4

NOTICE TO CONTRACTORS

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 NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION.

2. THE "NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION," 2007 EDITION, ARE INCORPORATED BY REFERENCE, THE SAME AS IF FULLY REWRITTEN THEREIN, IN THE CONTRACT, PROPOSAL, BOND, AND OTHER CONTRACT DOCUMENTS FOR WORK TO BE PERFORMED UNDER THIS CONTRACT FOR OWNER. SAID "NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION," 2007 EDITION, ARE FOR THE PURPOSE OF THE CONTRACT, PROPOSAL, BOND, AND OTHER CONTRACT DOCUMENTS, SUPPLEMENTED, MODIFIED, AND AMENDED AS FOLLOWS, AND AS MAY BE HEREINBEFORE AND HEREINAFTER PROVIDED. ALL ROADWAY AND UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1986 – UPDATE 7.

3. WHENEVER, IN THE SUPPLEMENTAL GENERAL PROVISIONS, SPECIAL CONDITIONS AND TECHNICAL SPECIFICATIONS THE WORD "SECTION" IS FOLLOWED BY A NUMBER AND A CAPTION (SUCH AS "SECTION 105.2 PLANS AND WORKING DRAWINGS") REFERENCE IS MADE TO THAT SPECIFIC SECTION OF THE "NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION," 2007 EDITION AND/OR THAT SPECIFIC SECTION OF "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1986 – UPDATE 7. THE SUPPLEMENTAL GENERAL PROVISIONS, SPECIAL CONDITIONS, SUPPLEMENTAL TECHNICAL SPECIFICATIONS, SPECIAL PROVISIONS, AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN OVER THE STANDARD SPECIFICATIONS AND ARE HEREBY MADE A PART OF THE CONTRACT DOCUMENTS.

4. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260–1990) FOR LOCATION OF EXISTING UTILITIES.

5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN TWO (2) DAYS PRIOR TO STARTING WORK.

7. RELOCATION OF DISTURBED MONUMENTS SHALL BE INCIDENTAL TO THE WORK. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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.

8. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND APPURTENANCES AS REQUIRED BY THE SPECIFICATIONS FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

9. CONTRACTOR SHALL MAINTAIN A GRAFFITI–FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

SPECIAL NOTES FOR WORK IN AMAFCA R/W OR EASEMENT

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48–HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W OR EASEMENTS. TEL 884–2215.

2. ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 95% (MODIFIED PROCTOR) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.

3. AMAFCA FIELD ENGINEER WILL BE NOTIFIED 48–HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W.

EARTHWORK NOTES

1. CLEARING, GRUBBING AND STRIPPING WILL BE REQUIRED OVER THE ENTIRE FOUNDATION AREA. STRIPPING AND PREPARATION OF FILL FOUNDATION AREAS SHALL EXTEND A MINIMUM OF 5 FEET HORIZONTALLY BEYOND LIMITS. STRIPPING SHOULD BE ACHIEVED ONLY BY CUTTING, I.E., GROUND DEPRESSIONS OR NARROW SECTIONS OF TRIBUTARY ARROYOS SHOULD NOT BE INADVERTENTLY FILLED DURING THE FOUNDATION PREPARATION. THE RESULTING FOUNDATION AREA SHALL BE CUT TO PROVIDE UNIFORM, RELATIVELY LEVEL SURFACE FOR COMPACTION EQUIPMENT. THE FOUNDATION AREA SHOULD BE MOISTENED TO OPTIMUM MOISTURE CONTENT OR ABOVE FOR A MINIMUM DEPTH OF 5 FEET. THE UPPER 12 INCHES OF FOUNDATION TREATMENT SHALL THEN BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D–1557 WITH A MINIMUM OF 20 PASSES WITH A MINIMUM 20 TON (COMBINED STATIC AND DYNAMIC) VIBRATORY COMPACTOR.

2. THE BLENDED SITE SOILS ARE GENERALLY SUITABLE FOR USE AS FILL. EXPERIENCE DICTATES SHRINKAGE FACTORS GREATER THAN CALCULATED VALUES. STRIPPING, SUBGRADE PREPARATION, HAULING, WIND AND COMPACTION ARE ALL FACTORS IN LOSS OF GROUND. RECOMMENDED SHRINKAGE FACTOR IS 20%. ALL FILL OR BACKFILL MATERIAL SHOULD BE NON–EXPANSIVE, FREE OF VEGETATION AND DEBRIS AND CONTAIN NO ROCKS LARGER THAN 3 INCHES. GRADATION OF THE RANDOM FILL MATERIAL, AS DETERMINED IN ACCORDANCE WITH ASTM D–422, SHALL BE AS FOLLOWS:

SIEVE SIZE (SQUARE OPENINGS)	PERCENT PASSING BY WEIGHT
3 INCH	100
NO. 4	60–100
NO. 200	15–50

3. THE PLASTICITY INDEX OF THE EMBANKMENT FILL SHALL BE NO GREATER THAN 15 WHEN TESTED IN ACCORDANCE WITH ASTM D–4318.

4. FILL OR BACKFILL, CONSISTING OF SOIL APPROVED BY THE GEOTECHNICAL ENGINEER, SHOULD BE PLACED IN CONTROLLED COMPACTED LAYERS WITH APPROVED COMPACTION EQUIPMENT. ALL FILL SHALL BE BLENDED AS NECESSARY TO PRODUCE A HOMOGENEOUS FILL. NO LIFTS OF HIGH PERMEABILITY MATERIAL OR MATERIAL DIFFERING SUBSTANTIALLY FROM THE LIFT BELOW WILL BE PERMITTED. SHEEPSFOOT OR VIBRATORY SHEEPSFOOT OR SEGMENTED STEEL WHEEL TYPE COMPACTORS SHALL BE USED. IF THE COMPACTORS WALK OUT DURING COMPACTION, OR IF IT IS DESIRED TO USE FLAT WHEEL COMPACTORS, THE UPPER 1 TO 2 INCHES OF THE LIFT SHALL BE SCARIFIED PRIOR TO PLACING A SUBSEQUENT LIFT. THE FILL SHALL BE RAISED UNIFORMLY. ALL COMPACTION OF FILL OR BACKFILL SHOULD BE TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D–1557. THE MOISTURE CONTENT OF THE FILL OR BACKFILL, DURING COMPACTION, SHOULD BE WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. WITH ANY VIBRATORY COMPACTOR, VIBRATIONS SHOULD BE CONTROLLED OR ELIMINATED TO AVOID DAMAGE TO ADJACENT STRUCTURES OR INFRASTRUCTURE.

5. TESTS FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE ASTM D–1556 METHOD OR ASTM D–2922. OBSERVATION AND FIELD TESTS SHALL BE CONDUCTED DURING FILL AND BACKFILL PLACEMENT BY THE GEOTECHNICAL ENGINEER TO ASSIST THE CONTRACTOR IN EVALUATING THE REQUIRED DEGREE OF COMPACTION. IF LESS THAN THE REQUIRED COMPACTION IS OBTAINED, ADDITIONAL COMPACTION EFFORT SHOULD BE MADE WITH ADJUSTMENTS OF THE MOISTURE CONTENT AS NECESSARY UNTIL 95% COMPACTION IS OBTAINED.

LEGEND

EXISTING FACILITIES

- BUILDINGS & MISCELLANEOUS STRUCTURES
- BRIDGE
- COMMUNICATION FEATURES
- CURB & GUTTER
- DITCHES AND MISCELLANEOUS DRAINAGE
- DRIVEPAD
- EDGE OF ROAD
- ELECTRICAL FEATURES
- ELECTRICAL LINES (OVERHEAD)
- ELECTRICAL LINES (UNDERGROUND)
- FENCE
- GAS FEATURE
- GAS LINE
- MISCELLANEOUS UTILITIES
- RIVER
- SIDEWALK
- SANITARY SEWER FEATURES
- SANITARY SEWER LINES
- STORM DRAIN FEATURES
- STORM DRAIN LINE (SIZES VARY)
- TELEPHONE LINE
- TELEVISION LINE
- VEGETATION
- WATER FEATURE
- WATER LINE
- WALL
- TRENCH LIMITS

NEW FACILITIES

- WATERLINE
- FIRE HYDRANT
- SLOPE DIRECTION — 4:1 TIE
- REMOVE AND DISPOSE
- FINISHED ELEVATION

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.

2. FILL MATERIALS FROM EXCAVATION OR BORROW WHICH REQUIRE MORE THAN ONE HANDLING PRIOR TO FINAL PLACEMENT, INCLUDING STOCKPILING AND BLENDING TO MEET GRADATION REQUIREMENTS OR STOCKPILING FOR LATER DISPOSAL, WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR "FILL CONSTRUCTION". NO SEPARATE PAYMENT SHALL BE MADE FOR MULTIPLE HANDLING AND FINAL PAYMENT SHALL BE MADE ON THE BASIS OF QUANTITIES REMOVED FROM THE ORIGINAL LOCATION.

3. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY BE IT PRIVATE OR CITY OWNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

4. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, UNSUITABLE MATERIAL AND ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE. BURIAL OF DEBRIS SHALL NOT BE ALLOWED WITHIN PROJECT LIMITS.

5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

6. SLOPE/GRADING LIMITS AND LIMITS OF EXCAVATION SHOWN ON THE PLANS DEFINE "LIMITS OF WORK" FOR THIS PROJECT. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.

7. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL BE ONLY IN "CONSTRUCTION STAGING AREA".

8. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE)

9. THE CONTRACTOR MUST LOCATE ALL AMAFCA BRASS CAPS AND OTHER SURVEY MARKERS SHOWN ON PLANS, PROTECT DURING CONSTRUCTION OR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CAPS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

10. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

11. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE BEGINNING AND END OF EACH DAY.

12. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS, AT HIS OWN EXPENSE.

13. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

14. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

15. THE CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND MAINTAIN TEMPORARY PUMPS AND ASSOCIATED PIPING TO ACCOMODATE FOR FLOWS THAT MAY OR MAY NOT OCCUR DURING THE CONSTRUCTION PERIOD.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [ ] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [ ] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CONSTRUCTION OBSERVER.
- [ ] SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- [ ] IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- [ ] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- [ ] THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

AS-BUILT INFORMATION

CONTRACTOR — DATE
WORK STARTED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

CITY OF ALBUQUERQUE '1-E23'
GEOGRAPHIC POSITION (NAD 1983)
MODIFIED NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE)
N = 1513636.816 E = 1567124.226
GROUND TO GRID FACTOR = 0.999621355
DELTA ALPHA = -0°08'32.41"
NAVD 1988 ELEVATION = 6036.869

SURVEY INFORMATION

FIELD NOTES — NO. — BY — DATE

ENGINEER'S SEAL

ALANDREN ETLANTUS — NEW MEXICO — PROFESSIONAL ENGINEER

No.	Date	REMARKS	REVISIONS	DESIGN
				Designed By: AE — DATE: 05/11
				Drawn By: ARR — DATE: 05/11
				Checked By: CH — DATE: 05/11

Bohannan ▲ Huston INC.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

PINO DAM ROUGH GRADING

GENERALL NOTES

△1
△2
△3

DRAWING NO.	MAP NO.	SHEET	OF
	E-22-Z	3	4

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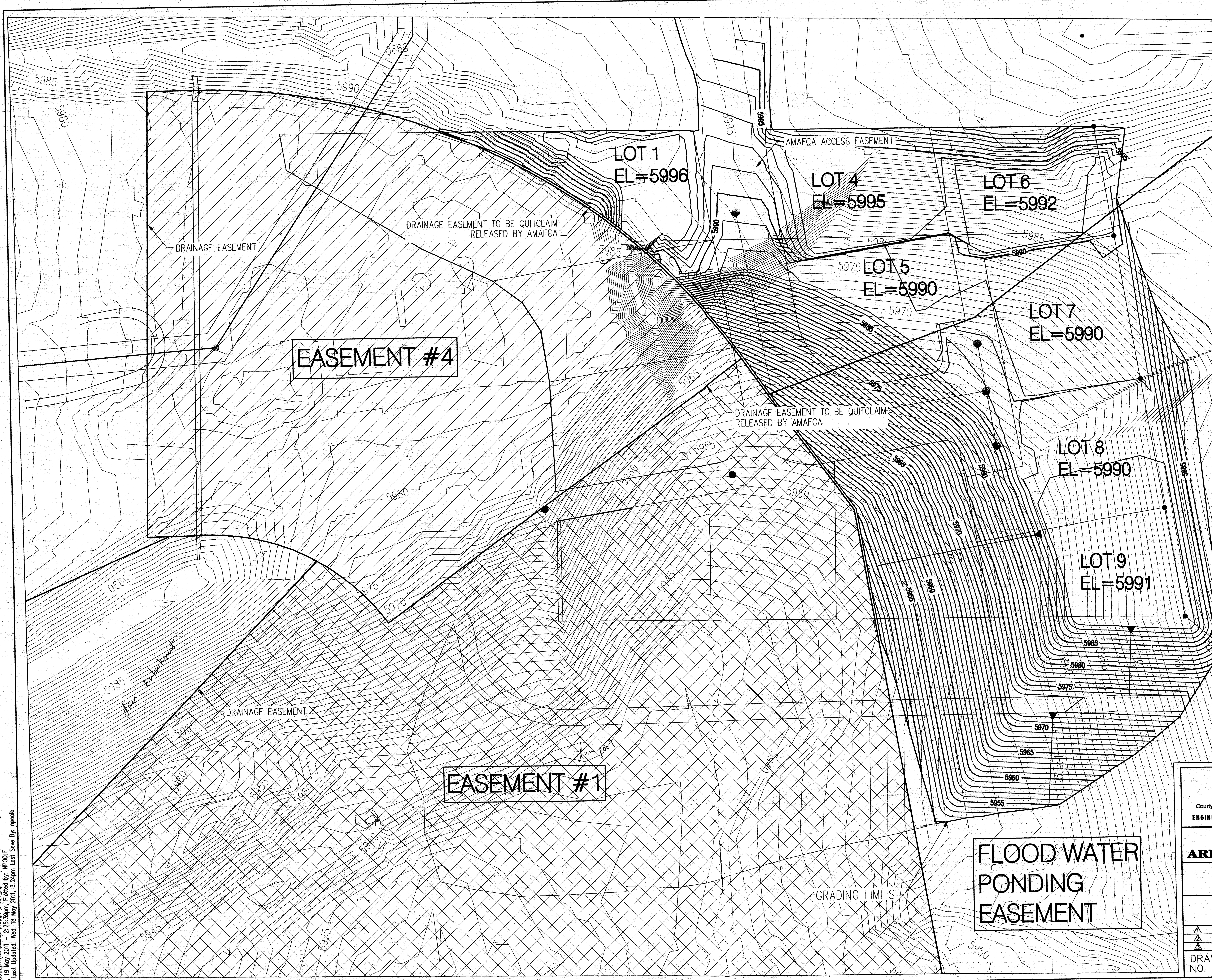

NOTE:
1. LOT ELEVATIONS SHOWN ARE BASED ON ROUGH GRADING.

N

30 15 0 30
1"=30'

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ENGINEER'S SEAL

ALANDREN ETLANTUS NEW MEXICO 19995 PROFESSIONAL ENGINEER 5-19-11

No.	Date	REMARKS

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ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

PINO DAM ROUGH GRADING

GRADING PLAN

DRAWING NO.	MAP NO. E-22-Z	SHEET 4 OF 4

05-18-2011

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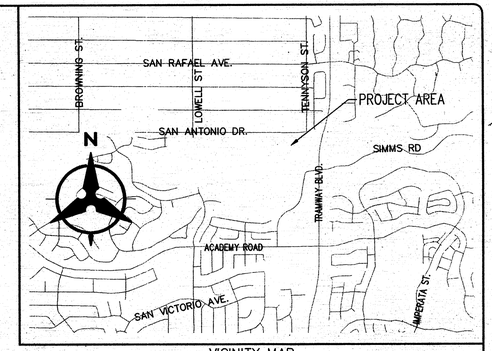
TUSCANY VILLAGE

CONSTRUCTION PLANS FOR
TUSCANY VILLAGE ROUGH GRADING
ALBUQUERQUE, NEW MEXICO



VICINITY MAP

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APPROVED FOR WORK IN AMAFCA EASEMENT:

JERRY M. LOVATO P.E. DATE
EXECUTIVE ENGINEER

ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

RECEIVED
JUN 22 2012

CRAIG W. HOOVER
NEW MEXICO
11040
REGISTERED PROFESSIONAL ENGINEER
2012

Bohannan Huston Inc.
SECTION
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
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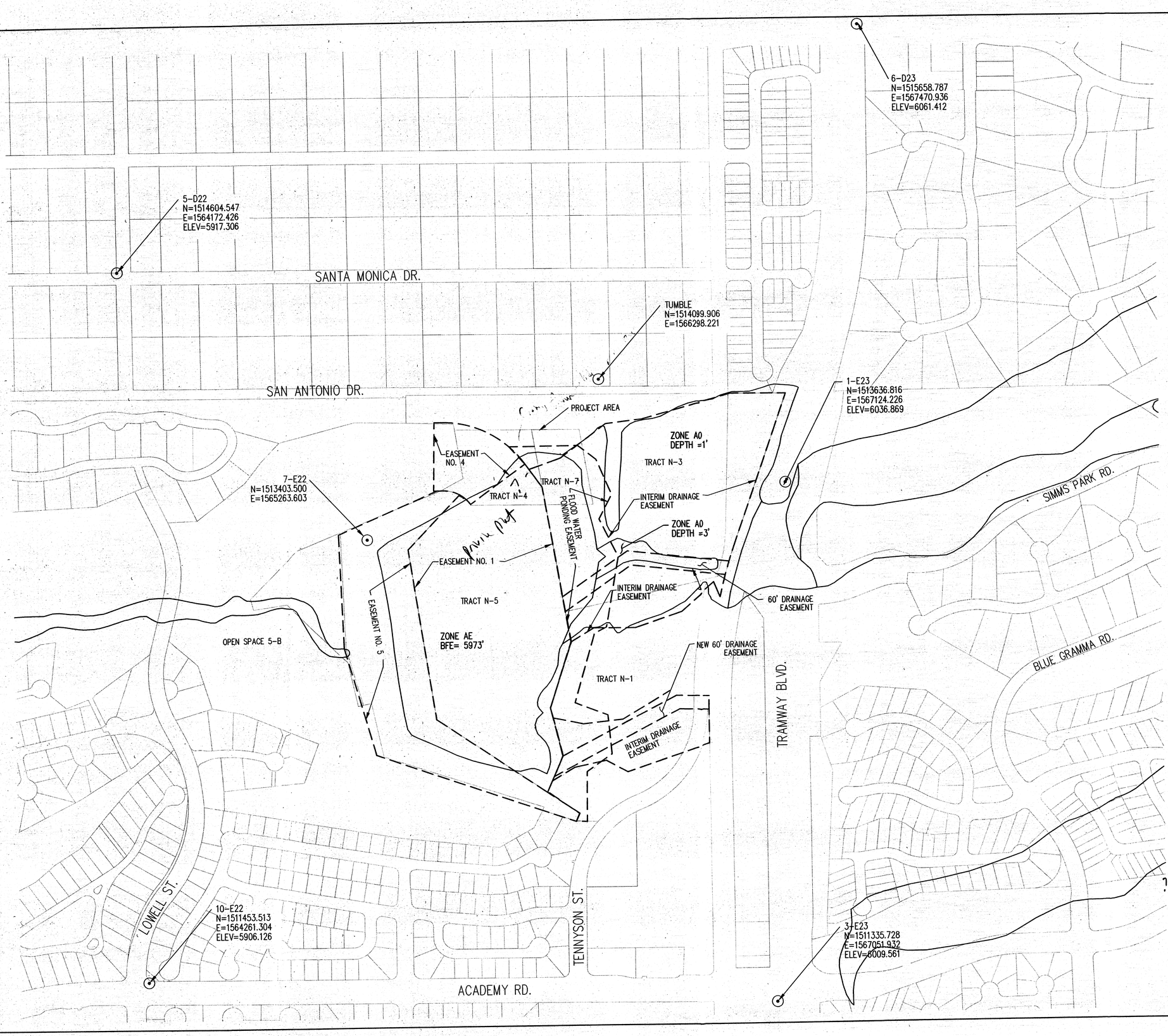

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LEGEND

FLOODPLAIN

EXISTING EASEMENT

N

200 100 0 200

1"=200'

BENCH MARKS

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AS-BUILT INFORMATION

CONTRACTOR DATE

SIGNED BY DATE

INSPECTOR'S ACCEPTANCE BY DATE

SURVEYED BY DATE

DRAWING BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

SURVEYOR'S SEAL

No.	Date	By	REMARKS
			REVISIONS
			DESIGN

Designed By: AE DATE: 06/11

Drawn By: AR DATE: 06/11

Checked By: CH DATE: 06/11

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TUSCANY VILLAGE ROUGH GRADING

SURVEY CONTROL PLAN

RECEIVED
JUN 2 2 2012
HYDROLOGY SECTION

DRAWING NO.	MAP NO.	SHEET	OF
	E-22-Z	2	4

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Tue, 12 Jun 2012 - 2:32:50pm, Plotted by: JELLISON
File Last Updated: Tue, 12 Jun 2012, 2:30pm Last Save By: jellison

NOTICE TO CONTRACTORS

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 NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION.

2. THE "NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION," 2007 EDITION, ARE INCORPORATED BY REFERENCE, THE SAME AS IF FULLY REWRITTEN THEREIN, IN THE CONTRACT, PROPOSAL, BOND, AND OTHER CONTRACT DOCUMENTS FOR WORK TO BE PERFORMED UNDER THIS CONTRACT FOR OWNER. SAID "NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION," 2007 EDITION, ARE FOR THE PURPOSE OF THE CONTRACT, PROPOSAL, BOND, AND OTHER CONTRACT DOCUMENTS, SUPPLEMENTED, MODIFIED, AND AMENDED AS FOLLOWS, AND AS MAY BE HEREINBEFORE AND HEREINAFTER PROVIDED. ALL ROADWAY AND UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1986 – UPDATE 7.

3. WHENEVER, IN THE SUPPLEMENTAL GENERAL PROVISIONS, SPECIAL CONDITIONS AND TECHNICAL SPECIFICATIONS THE WORD "SECTION" IS FOLLOWED BY A NUMBER AND A CAPTION (SUCH AS "SECTION 105.2 PLANS AND WORKING DRAWINGS") REFERENCE IS MADE TO THAT SPECIFIC SECTION OF THE "NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION," 2007 EDITION AND/OR THAT SPECIFIC SECTION OF "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1986 – UPDATE 7. THE SUPPLEMENTAL GENERAL PROVISIONS, SPECIAL CONDITIONS, SUPPLEMENTAL TECHNICAL SPECIFICATIONS, SPECIAL PROVISIONS, AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN OVER THE STANDARD SPECIFICATIONS AND ARE HEREBY MADE A PART OF THE CONTRACT DOCUMENTS.

4. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN TWO (2) DAYS PRIOR TO STARTING WORK.

7. RELOCATION OF DISTURBED MONUMENTS SHALL BE INCIDENTAL TO THE WORK. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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.

8. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND APPURTENANCES AS REQUIRED BY THE SPECIFICATIONS FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

9. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

SPECIAL NOTES FOR WORK IN AMAFCA R/W OR EASEMENT

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48-HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W OR EASEMENTS. TEL 884-2215.

2. ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 95% (MODIFIED PROCTOR) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.

3. AMAFCA FIELD ENGINEER WILL BE NOTIFIED 48-HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W OR EASEMENTS

4. CONTRACTOR SHALL RESTORE THE EMERGENCY SPILLWAY TO ORIGINAL DESIGN/AS-BUILT CONFIGURATION PER 2007 SURVEY (NAD83/NAVD88) COMPLETED BY BOHANNAN HUSTON INC. (GRADING SHOWN ON SHEET 4 TIES TO THIS 2007 SURVEY)

5. AMAFCA TO BE ADDITIONALLY INSURED.

EARTHWORK NOTES

1. CLEARING, GRUBBING AND STRIPPING WILL BE REQUIRED OVER ALL AREAS. STRIPINGS SHALL BE STOCKPILED AND THEN PLACED ON THE FINAL CUT SLOPES. STRIPPING AND PREPARATION OF FILL FOUNDATION AREAS SHALL EXTEND A MINIMUM OF 5 FEET HORIZONTALLY BEYOND LIMITS. STRIPPING SHOULD BE ACHIEVED ONLY BY CUTTING, I.E., GROUND DEPRESSIONS OR NARROW SECTIONS OF TRIBUTARY ARROYOS SHOULD NOT BE INADVERTENTLY FILLED DURING THE FOUNDATION PREPARATION. THE RESULTING FOUNDATION AREA SHALL BE CUT TO PROVIDE UNIFORM, RELATIVELY LEVEL SURFACE FOR COMPACTION EQUIPMENT.

2. THE BLENDED SITE SOILS ARE GENERALLY SUITABLE FOR USE AS FILL. EXPERIENCE DICTATES SHRINKAGE FACTORS GREATER THAN CALCULATED VALUES. STRIPPING, SUBGRADE PREPARATION, HAULING, WIND AND COMPACTION ARE ALL FACTORS IN LOSS OF GROUND. RECOMMENDED SHRINKAGE FACTOR IS 25%. ALL FILL OR BACKFILL MATERIAL SHOULD BE NON-EXPANSIVE, FREE OF VEGETATION AND DEBRIS AND CONTAIN NO ROCKS LARGER THAN 3 INCHES. GRADATION OF THE RANDOM FILL MATERIAL, AS DETERMINED IN ACCORDANCE WITH ASTM D-422, SHALL BE AS FOLLOWS:

SIEVE SIZE (SQUARE OPENINGS)	PERCENT PASSING BY WEIGHT
3 INCH	100
NO. 4	60-100
NO. 200	15-50

3. THE PLASTICITY INDEX OF THE EMBANKMENT FILL SHALL BE NO GREATER THAN 15 WHEN TESTED IN ACCORDANCE WITH ASTM D-4318.

4. FILL OR BACKFILL, CONSISTING OF SOIL APPROVED BY THE GEOTECHNICAL ENGINEER, SHOULD BE PLACED IN CONTROLLED COMPACTED LAYERS WITH APPROVED COMPACTION EQUIPMENT. ALL FILL SHALL BE BLENDED AS NECESSARY TO PRODUCE A HOMOGENEOUS FILL. NO LIFTS OF HIGH PERMEABILITY MATERIAL OR MATERIAL DIFFERING SUBSTANTIALLY FROM THE LIFT BELOW WILL BE PERMITTED. SHEEPSFOOT OR VIBRATORY SHEEPSFOOT OR SEGMENTED STEEL WHEEL TYPE COMPACTORS SHALL BE USED. IF THE COMPACTORS WALK OUT DURING COMPACTION, OR IF IT IS DESIRED TO USE FLAT WHEEL COMPACTORS, THE UPPER 1 TO 2 INCHES OF THE LIFT SHALL BE SCARIFIED PRIOR TO PLACING A SUBSEQUENT LIFT. THE FILL SHALL BE RAISED UNIFORMLY. ALL COMPACTION OF FILL OR BACKFILL SHOULD BE TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557. THE MOISTURE CONTENT OF THE FILL OR BACKFILL DURING COMPACTION, SHOULD BE WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. WITH ANY VIBRATORY COMPACTOR, VIBRATIONS SHOULD BE CONTROLLED OR ELIMINATED TO AVOID DAMAGE TO ADJACENT STRUCTURES OR INFRASTRUCTURE.

5. TESTS FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE ASTM D-1556 METHOD OR ASTM D-2922. OBSERVATION AND FIELD TESTS SHALL BE CONDUCTED DURING FILL AND BACKFILL PLACEMENT BY THE GEOTECHNICAL ENGINEER TO ASSIST THE CONTRACTOR IN EVALUATING THE REQUIRED DEGREE OF COMPACTION. IF LESS THAN THE REQUIRED COMPACTION IS OBTAINED, ADDITIONAL COMPACTION EFFORT SHOULD BE MADE WITH ADJUSTMENTS OF THE MOISTURE CONTENT AS NECESSARY UNTIL 95% COMPACTION IS OBTAINED.

LEGEND

EXISTING FACILITIES	NEW FACILITIES
BUILDINGS & MISCELLANEOUS STRUCTURES	WATERLINE
BRIDGE	FIRE HYDRANT
COMMUNICATION FEATURES	SLOPE DIRECTION (4:1 TYP.)
CURB & GUTTER	REMOVE AND DISPOSE
DITCHES AND MISCELLANEOUS DRAINAGE	FINISHED ELEVATION
DRIVEPAD	
EDGE OF ROAD	
ELECTRICAL FEATURES	
ELECTRICAL LINES (OVERHEAD)	
ELECTRICAL LINES (UNDERGROUND)	
FENCE	
GAS FEATURE	
GAS LINE	
MISCELLANEOUS UTILITIES	
RIVER	
SIDEWALK	
SANITARY SEWER FEATURES	
SANITARY SEWER LINES	
STORM DRAIN FEATURES	
STORM DRAIN LINE (SIZES VARY)	
TELEPHONE LINE	
TELEVISION LINE	
VEGETATION	
WATER FEATURE	
WATER LINE	
WALL	
TRENCH LIMITS	

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.

2. FILL MATERIALS FROM EXCAVATION OR BORROW WHICH REQUIRE MORE THAN ONE HANDLING PRIOR TO FINAL PLACEMENT, INCLUDING STOCKPILING AND BLENDING TO MEET GRADATION REQUIREMENTS OR STOCKPILING FOR LATER DISPOSAL, WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR "FILL CONSTRUCTION". NO SEPARATE PAYMENT SHALL BE MADE FOR MULTIPLE HANDLING AND FINAL PAYMENT SHALL BE MADE ON THE BASIS OF QUANTITIES REMOVED FROM THE ORIGINAL LOCATION.

3. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY BE IT PRIVATE OR CITY OWNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

4. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, UNSUITABLE MATERIAL AND ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE. BURIAL OF DEBRIS SHALL NOT BE ALLOWED WITHIN PROJECT LIMITS.

5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

6. SLOPE/GRADING LIMITS AND LIMITS OF EXCAVATION SHOWN ON THE PLANS DEFINE "LIMITS OF WORK" FOR THIS PROJECT. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.

7. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL BE ONLY IN "CONSTRUCTION STAGING AREA".

8. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE)

9. THE CONTRACTOR MUST LOCATE ALL AMAFCA BRASS CAPS AND OTHER SURVEY MARKERS SHOWN ON PLANS, PROTECT DURING CONSTRUCTION OR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CAPS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

10. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

11. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE BEGINNING AND END OF EACH DAY.

12. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS, AT HIS OWN EXPENSE.

13. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

14. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

15. THE CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND MAINTAIN TEMPORARY PUMPS AND ASSOCIATED PIPING TO ACCOMODATE FOR FLOWS THAT MAY OR MAY NOT OCCUR DURING THE CONSTRUCTION PERIOD.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CONSTRUCTION OBSERVER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☐ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS

CITY OF ALBUQUERQUE "1-E23"
GEOGRAPHIC POSITION (NAD 1983)
MODIFIED NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE)
N = 1513535.816 E = 1567124.226
GROUND TO GRID FACTOR = 0.999621355
DELTA ALPHA = -0°08'32.41"
NAVD 1988 ELEVATION = 6036.869

AS-BUILT INFORMATION

CONTRACTOR — DATE
STAKED BY — DATE
INSPECTION'S COMPARED BY — DATE
FIELD VERIFICATION BY — DATE
CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

ENGINEER'S SEAL

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	DATE: 06/11
			DATE: 06/11
			DATE: 06/11

Designed By: AE
Drawn By: ARR
Checked By: CH

Bohannan ▲ Huston

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TUSCANY VILLAGE ROUGH GRADING

GENERALL NOTES

RECEIVED
JUN 22 2012
HYDROLOGY SECTION

DRAWING NO.	MAP NO.	SHEET	OF
	E-22-Z	3	4

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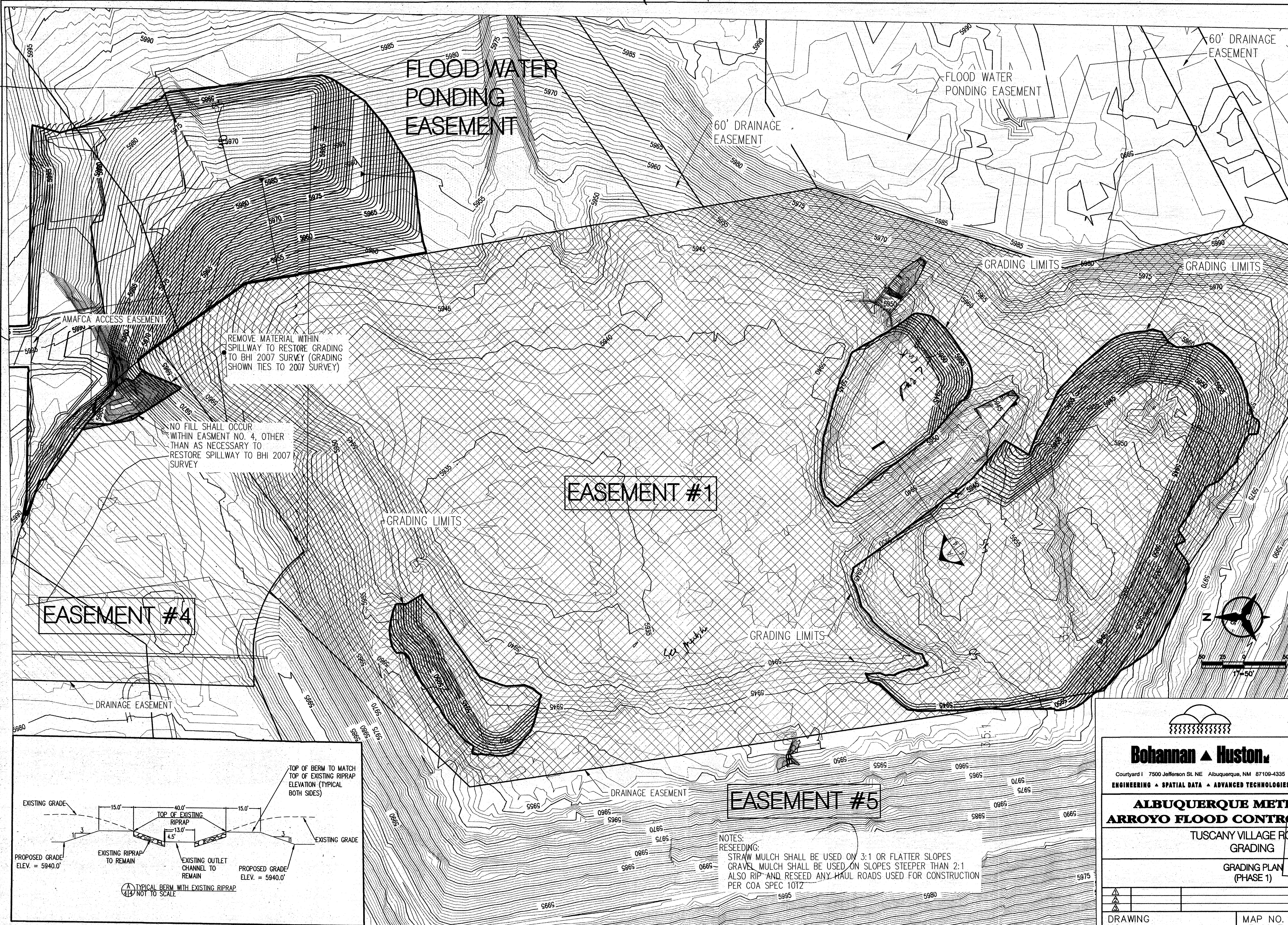

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AS-BUILT INFORMATION

CONTRACTOR / DATE
WORK STAKED BY / DATE
INSPECTOR'S ACCEPTANCE BY / DATE
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DRAWINGS CORRECTED BY / DATE

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REVISIONS

DESIGN

Designed By: AE DATE: 06/11
Drawn By: AR DATE: 06/11
Checked By: CH DATE: 06/11

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ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TUSCANY VILLAGE ROUGH GRADING

RECEIVED JUN 2012 HYDROLOGY SECTION

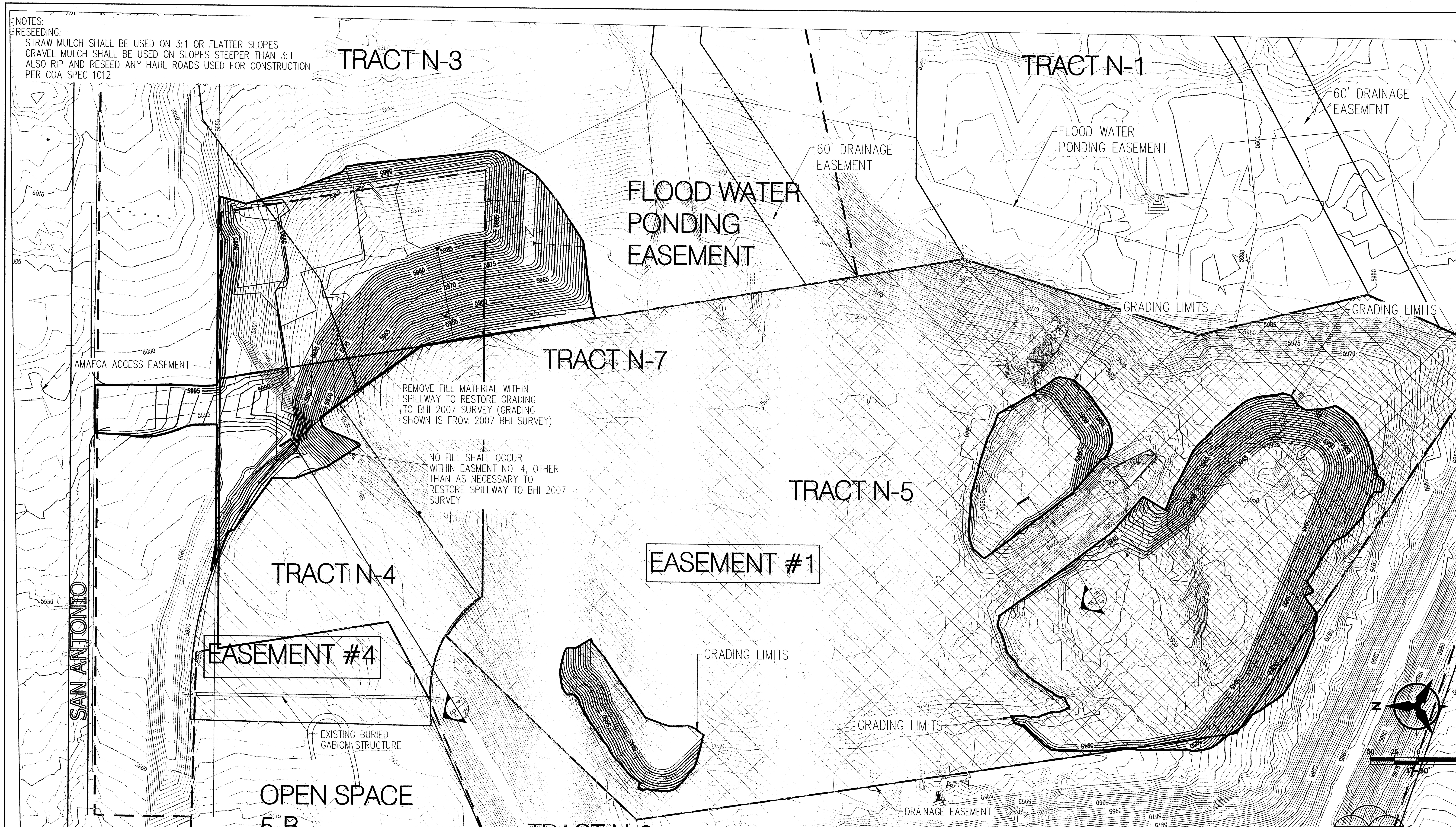
GRADING PLAN (PHASE 1)

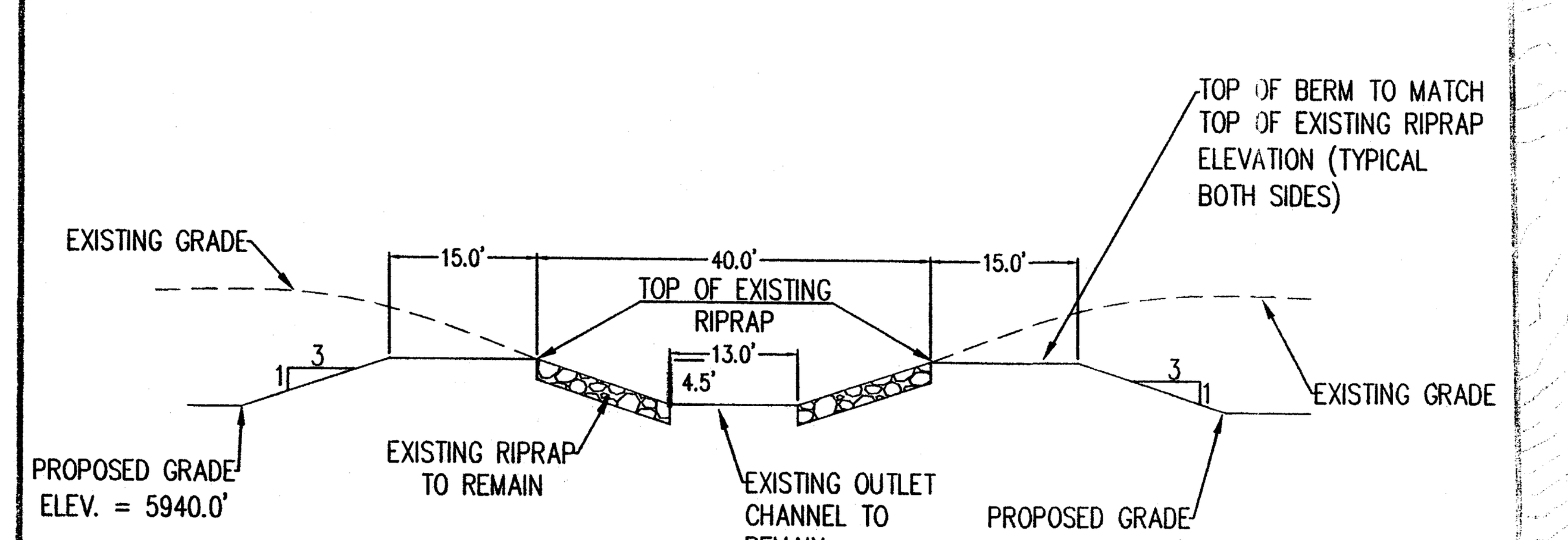
DRAWING NO.	MAP NO. E-22-Z	SHEET 4	OF 4

060297

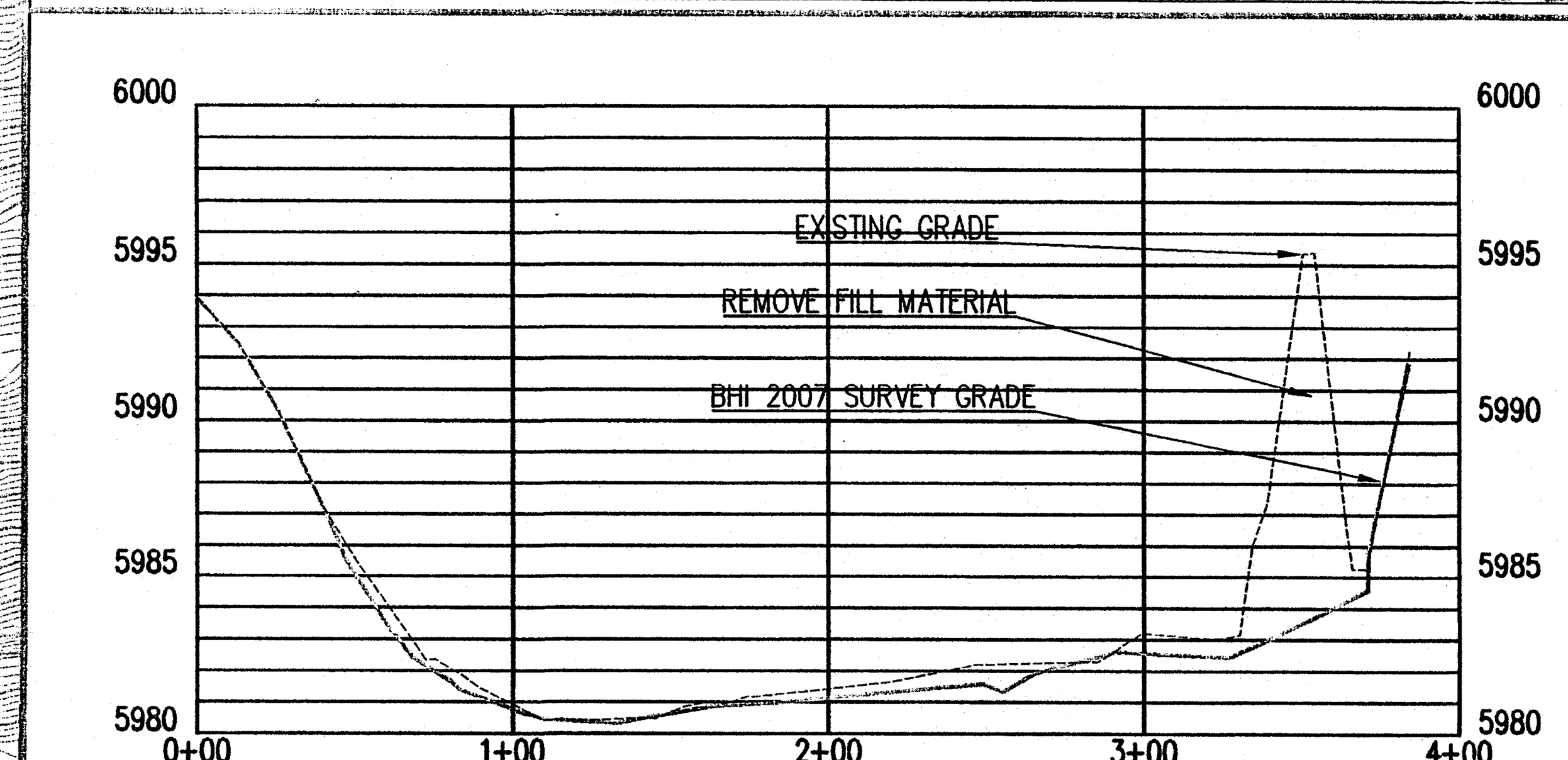
06-12-12

NOTES:
RESEEDING:
STRAW MULCH SHALL BE USED ON 3:1 OR FLATTER SLOPES
GRAVEL MULCH SHALL BE USED ON SLOPES STEEPER THAN 3:1
ALSO RIP AND RESEED ANY HAUL ROADS USED FOR CONSTRUCTION
PER COA SPEC 1012





A TYPICAL BERM WITH EXISTING RIPRAP
4/4 NOT TO SCALE



B SPILLWAY SECTION
4/4 HOIZ. 1"=60'
HOIZ. 1"=6'

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ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TUSCANY VILLAGE ROUGH GRADING

GRADING PLAN (PHASE 1)

RECEIVED
JUL 27 2012
HYDROLOGY SECTION

DRAWING NO.	MAP NO. E-22-Z	SHEET 4	OF 4

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	
Designed By: AE			DATE: 06/11
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Checked By: CH			DATE: 06/11

ENGINEER'S SEAL

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS
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WORK STARTED BY DATE
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FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

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060297

06-12-12

where is this?

Point No.	Top of Wall	Finished Grade at Bottom of Wall	Centerline of Wall Northing	Centerline of Wall Easting
1	5996.35	5983.48	1513888.50	1565656.53
2	5996.12	5983.95	1513863.91	1565660.52
3	5994.87	5983.22	1513831.67	1565713.00
4	5994.31	5979.43	1513786.03	1565798.19
5	5991.31	5979.43	1513784.25	1565800.54
6	5990.63	5978	1513722.47	1565834.78
7	5987.83	5978	1513712.84	1565835.70
8	5987.2	5981.86	1513643.14	1565838.59
9	5987.2	5981.95	1513643.64	1565841.55
10	5984	5981.75	1513622.97	1565839.24
11	5984.35	5983	1513618.17	1565839.20
12	5986	5984.1	1513631.68	1565893.22
13	5986.03	5984.39	1513663.27	1565953.82

NOTE:
1. LOT ELEVATIONS SHOWN ARE BASED ON ROUGH GRADING.

2. SPILLWAY HYDRAULIC ANALYSIS CONSERVATIVELY ASSUMES NO FLOW WITHIN LOTS IN PMF EVENT.

LEGEND

- GRAVEL MULCH AND SEEDING PER. COA SPEC SECTION 1012.
- SHOTCRETE
- RIPRAP

for information only

LOT 1 EL=5996
LOT 2 EL=5991
LOT 3 EL=5987
LOT 4 EL=5995
LOT 5 EL=5990
LOT 6 EL=5992
LOT 7 EL=5990
LOT 8 EL=5990
LOT 9 EL=5991
LOT 10 EL=5988
LOT 11 EL=5987
LOT 12 EL=5986

BUILD STAIRS SEE SHEET 12
DRAINAGE EASEMENT
BUILD RETAINING WALL SEE SHEET 11
EXISTING SAS TO REMAIN
GOLF CART PATH SEE SHEET 10
EXISTING GOLF CART PATH TO REMAIN
EXISTING BURIED GABION CHECK STRUCTURE TO REMAIN
BUILD EMERGENCY SPILLWAY CAP, SEE SHEET 9
DRAINAGE EASEMENT TO BE QUITCLAIM RELEASED BY AMAFCA
AMAFCA ACCESS EASEMENT
END CURB
PAVED AMAFCA ACCESS ROAD SEE SHEET 10
BUILD SAS SEE SHEET 14
AMAFCA ACCESS COMPACT TO 95% MIN ASTM D-1557
BUILD RIPRAP RUNDOWN, 15' WIDE SEE SHEET 9
GRADING LIMITS
3:1

N

30 15 0 30
1"=30'

SURVEY INFORMATION
FIELD NOTES BY: DATE
NO.

BENCH MARKS
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ENGINEER'S SEAL

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		DESIGN	DATE: 04/10
		Designed By: AE	DATE: 04/10
		Drawn By: AR	DATE: 04/10
		Checked By: CH	

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Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
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ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

SPILLWAY MODIFICATIONS
PINO DAM

RECEIVED
JUN 2 2012
GEOTECHNOLOGY SECTION

SPILLWAY AREA GRADING PLAN

DRAWING NO.	MAP NO.	SHEET	OF
X	E-22-Z	7	23

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Tue, 29 May 2012 - 5:15:36pm, Plotted by: JELLISON
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