CITY OF ALBUQUERQUE



July 16, 2015

Fred Arfman, PE Issacson & Arfman 128 Monroe Street NE Albuquerque, NM 87120

RE: Unser & Vista Oriente Shell Building, Lot 1-B-3, Ladera Industrial Center,

Unser Boulevard

Grading and Drainage Plan

Engineer's Stamp Date 5-19-2015 (File: H10-D006A5)

Dear Mr. Arfman:

Based upon the supplemental information provided on 7-14-15 in addition to the previously submitted grading and drainage plan, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan in the construction sets when submitting for a building permit.

PO Box 1293

Prior to Certificate of Occupancy release, Engineer Certification per the DPM Checklist will be required.

Albuquerque

If you have any questions, you can contact me at 924-3924.

New Mexico 87103

www.cabq.gov

Sincerely,

Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept.

Development Review Services

Orig: Drainage file

c.pdf via Email: Recipient, Monica Ortiz



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 02/2013)

Project Title: Unser & Vista Oriente Shell Building	Building Permit #	City Drainage #: HID-D
DRB#: EPC#:		Work Ordonti
Legal Description: A Portion of Lot 1-B-3, Ladera Indus	trial Center, City of Albuquerque	Remaille County, NM
City Address: Unser Blvd. NW, 87120	,,,	Dornamio County, 14W
Engineering Firm: Isaacson & Arfman, P.A.		_
Address: 128 Monroe Street, NE - Albu	- NA 07400	Contact: Fred C. Arfman, PE
Phone#: (505) 268-8828 Fax#: N/A		
		E-mail: freda@iacivil.com
Owner:		Contact:
Address:		
Phone#: Fax#:		E-mail:
Ambitante Afortin CB4 Occurrence A cut to a		Contact: Martin Grummer
Address: 331 Wellesley Place NE, Albuquerque, NM 87106		
Phone#: 505-265-2507 Fax#:		E-mail:
Surveyor: Surv-Tek Consulting Surveyors		
Address: 9384 Valley View Drive, Albuquerque, NM 8	7114	Contact: Russ P. Hugg
Phone#: 505-897-3366 Fax#:	7 114	8 "
Contractor: TBD		Contact:
Addiess		
Phone#: Fax#:		E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVA	AL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE	
X DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL	
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL	
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT APPROVAL	
GRADING PLAN	SECTOR PLAN APPROVAL	
EROSION & SEDIMENT CONTROL PLAN (ESC)	ION & SEDIMENT CONTROL PLAN (ESC) FINAL PLAT APPROVAL	
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY (PERM)	
CLOMR/LOMR	CERTIFICATE OF OCCUPANCY (TCL TEMP)	
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVAL	
ENGINEER'S CERT (TCL)	X BUILDING PERMIT APPROVAL	
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROV	
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVA	
· SO-19	WORK ORDER APPROVAL	
OTHER (SPECIFY)	GRADING CERTIFICATION	
	GIOLDING CERTIFICATION	OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes X No Cor	by Provided
DATE SUBMITTED: May 19, 2016 VIN 12015	By: Fred C. Arfman, PE For: Is	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following levels of Submittal may be required based on the following levels of Submittal may be required for approval of Site Development Plans greater than five (5) acres and Sector Plans

- Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



Thomas O. Isaacson, PE(RET.) & LS(RET.) Fred C. Arfman, PE Asa Nilsson-Weber, PE

June 16, 2015

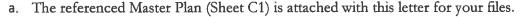
Ms. Jeanne Wolfenbarger, P.E. City of Albuquerque Senior Engineer, Planning Dept. Development Review Services

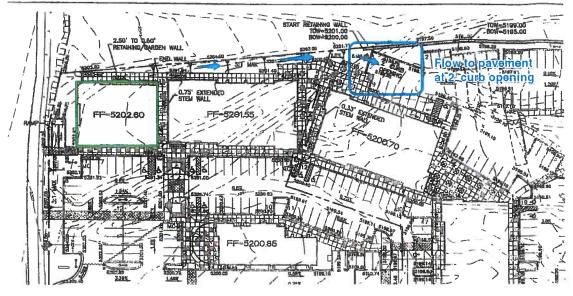
RE: Unser & Vista Oriente Shell Building, Lot 1-B-3, Ladera Industrial Center, Unser Blvd. (H10-D006A5)

Dear Ms. Wolfenbarger:

We received your review comments, dated June 12, 2015, for the above referenced project. Upon reviewing each comment, we believe the requested information is provided on the plans dated 5-19-2015. The following response is numbered to coordinate with your numbered comments:

1. Regarding the Ladera Industrial Center Site Development Plan (H9/D6A):





b. Regarding cross-lot drainage: per our Drainage Concept on Sheet CG-101: EXISTING MUTUAL CROSS LOT DRAINAGE EASEMENT FOR THE BENEFIT OF LOTS 1-B-1 THRU 1-B-4 GRANTED BY PLAT FILED JANUARY 26, 2012. SAID EASEMENT SHALL RUN OVER, UNDER AND ACROSS THE COMMON AREAS (MEANING THOSE AREAS OF LOT NOT OCCUPIED BY A BUILDING FROM TIME TO TIME AND AT ANY APPLICABLE TIME). MAINTENANCE OF SAID EASEMENT SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE LOT OWNERS AS TO THE PORTION CONTAINED WITHIN THEIR RESPECTIVE LOT.

- 2. The referenced spot elevations which are cut off on the right side of the plan view are continued on the insert at the bottom of sheet CG-102. Per keyed note #11: FIRST FLUSH POND (TEMPORARY). SEE INSERT THIS SHEET FOR CONTINUATION.
- 3. Basin area 3:
 - a. On sheet CG-501 is labeled 14,308 SF with 10,162 SF land treatment 'D'. This does match the calculations shown.
 - b. Regarding the comment "label lot line for 1-B-3". Sheet CG-101 provides the metes and bounds for the portion of the lot in the vicinity of the construction. Sheet CG-501 (top image) shows the lot outline and flags it as Lot 1-B-3. If you need additional labeling information, let me know.
- 4. The roof drain is shown on CG-101 and is identified as keyed note #3.

 BUILDING ROOF DISCHARGE LOCATION. EXTEND DRAIN PIPE
 THROUGH WALK TO RELEASE DIRECTLY TO FIRST FLUSH POND #1.

SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.

Please give me a call at 268-8828 if you need any additional information.

Sincerely,

Isaacson & Arfman, PA

rred C. Ariman, PE

CITY OF ALBUQUERQUE



June 12, 2015

Fred Arfman, PE Issacson & Arfman 128 Monroe Street NE Albuquerque, NM 87120

RE: Unser & Vista Oriente Shell Building, Lot 1-B-3, Ladera Industrial Center, Unser Boulevard
Grading and Drainage Plan
Engineer's Stamp Date 5-19-2015 (File: H10-D006A5)

Dear Mr. Arfman:

Based upon the information provided in your submittal received 5-19-15, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

PO Box 1293

1) Provide excerpts from the Ladera Industrial Center Site Development Plan showing that the site adjacent to the east is accepting on-site flow. Since the storm flow is increased from existing conditions, a cross-lot access agreement may be needed unless one is already in place to accept the proposed 100-year flow.

Albuquerque

2) A couple of the new spot elevations were cut off on the right side of the plan view on Sheet CG-102.

New Mexico 87103

3) For Basin 3 on Sheet CG-501, the labeling of the basin area on the plan view needs to match the basin area in the calculations. Also, label lot line for Lot 1-B-3.

www.cabq.gov

4) Show roof drains.

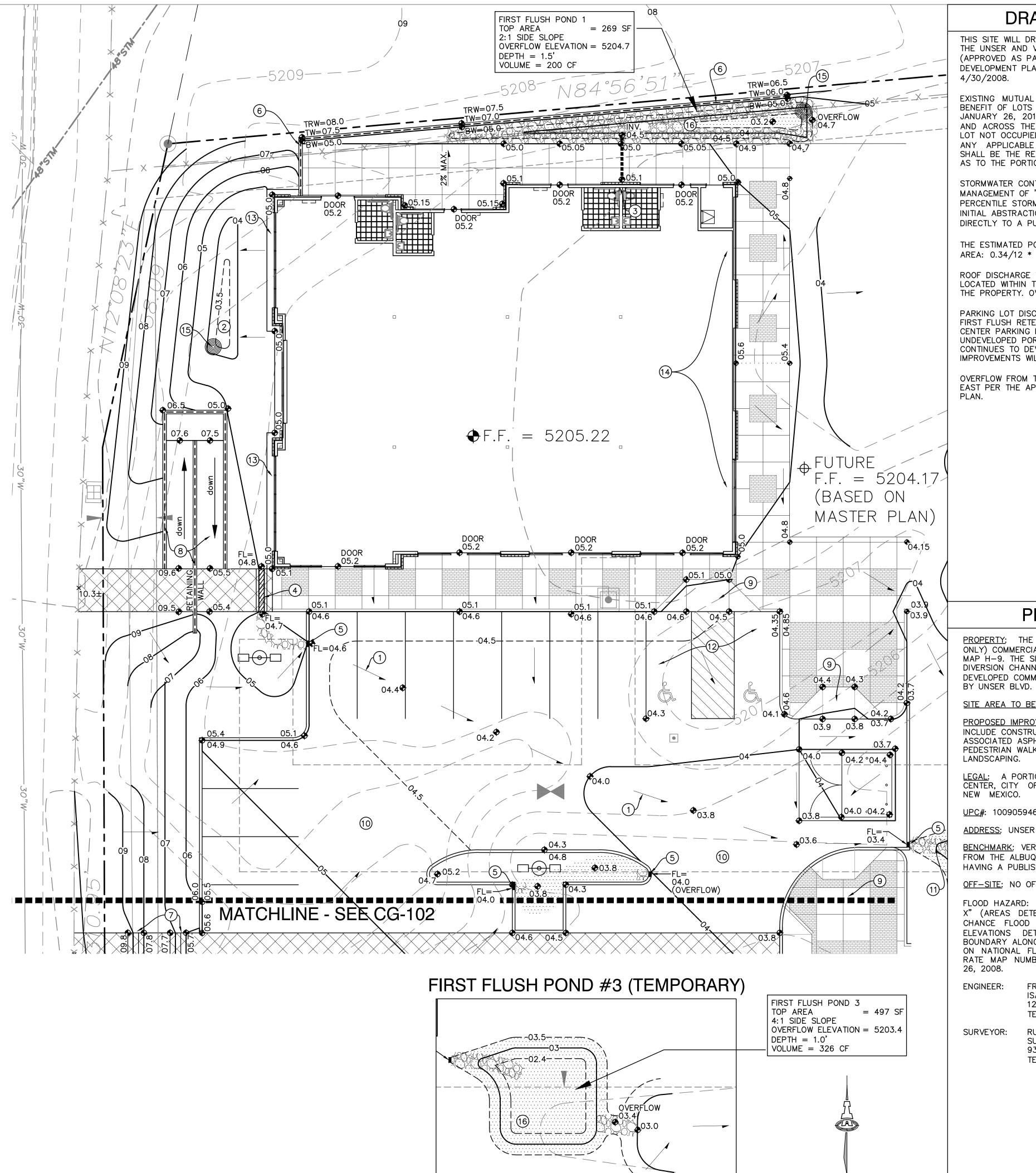
If you have any questions, you can contact me at 924-3924.

Sincerely,

Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept. Development Review Services

Orig: Drainage file

c.pdf Addressee via Email



Know what's **below**.

Call before you dig.

DRAINAGE CONCEPT

THIS SITE WILL DRAIN EAST TO THE ADJACENT PROPERTY PER THE UNSER AND VISTA ORIENTE GRADING AND DRAINAGE PLAN (APPROVED AS PART OF THE LADERA INDUSTRIAL CENTER SITE DEVELOPMENT PLAN FOR BUILDING PERMIT (H9/D6A) APPROVED

EXISTING MUTUAL CROSS LOT DRAINAGE EASEMENT FOR THE BENEFIT OF LOTS 1-B-1 THRU 1-B-4 GRANTED BY PLAT FILED JANUARY 26, 2012. SAID EASEMENT SHALL RUN OVER, UNDER AND ACROSS THE COMMON AREAS (MEANING THOSE AREAS OF LOT NOT OCCUPIED BY A BUILDING FROM TIME TO TIME AND AT ANY APPLICABLE TIME). MAINTENANCE OF SAID EASEMENT SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE LOT OWNERS AS TO THE PORTION CONTAINED WITHIN THEIR RESPECTIVE LOT.

STORMWATER CONTROL MEASURES ARE REQUIRED TO PROVIDE MANAGEMENT OF 'FIRST FLUSH' (DEFINED AS THE 90TH PERCENTILE STORM EVENT OR 0.34" [0.44" LESS 0.1" FOR INITIAL ABSTRACTION] OF STORMWATER WHICH DISCHARGES DIRECTLY TO A PUBLIC STORM DRAINAGE SYSTEM).

THE ESTIMATED PONDING VOLUME REQUIRED IS 0.34" * TYPE 'D' AREA: 0.34/12 * 0.6 AC * 43560 = 740 CF

ROOF DISCHARGE WILL BE DIRECTED TO A FIRST FLUSH POND LOCATED WITHIN THE LANDSCAPE AREA ON THE NORTH SIDE OF THE PROPERTY. OVERFLOW WILL BE ROUTED EAST.

PARKING LOT DISCHARGE WILL BE DIRECTED TO ONE OF THREE FIRST FLUSH RETENTION PONDS. A PERMANENT POND IN THE CENTER PARKING ISLAND AND TWO TEMPORARY PONDS IN THE UNDEVELOPED PORTION OF THE PROPERTY. AS THE PROPERTY CONTINUES TO DEVELOP, PERMANENT FIRST FLUSH IMPROVEMENTS WILL BE CONSTRUCTED.

OVERFLOW FROM THESE FIRST FLUSH PONDS WILL CONTINUE EAST PER THE APPROVED MASTER DRAINAGE AND GRADING

PROJECT DATA

PROPERTY: THE SITE IS A PARTIALLY DEVELOPED (UTILITIES ONLY) COMMERCIAL PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP H-9. THE SITE IS BOUND TO THE NORTH BY THE LADERA DIVERSION CHANNEL, TO THE EAST AND SOUTH BY PARTIALLY DEVELOPED COMMERCIAL (UTILITIES ONLY), AND TO THE WEST

SITE AREA TO BE DEVELOPED: 0.7 ACRES

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE CONSTRUCTION OF 5,820(±) SF RETAIL BUILDING WITH ASSOCIATED ASPHALT PAVED ACCESS AND PARKING, PEDESTRIAN WALKS, DRAINAGE IMPROVEMENTS, AND LANDSCAPING.

LEGAL: A PORTION OF LOT 1-B-3, LADERA INDUSTRIAL CENTER, CITY OF ALBUQUERQUE, BERNALILLO COUNTY,

<u>UPC#</u>: 100905946336210204

ADDRESS: UNSER BLVD NW ALBUQUERQUE NM 87120

BENCHMARK: VERTICAL DATUM SHOWN HEREON WAS DERIVED FROM THE ALBUQUERQUE CONTROL SURVEY MONUMENT "4-H9" HAVING A PUBLISHED ELEVATION OF 5209.315 FEET (NAVD 88).

OFF-SITE: NO OFF-SITE DRAINAGE AFFECTS THIS PROPERTY.

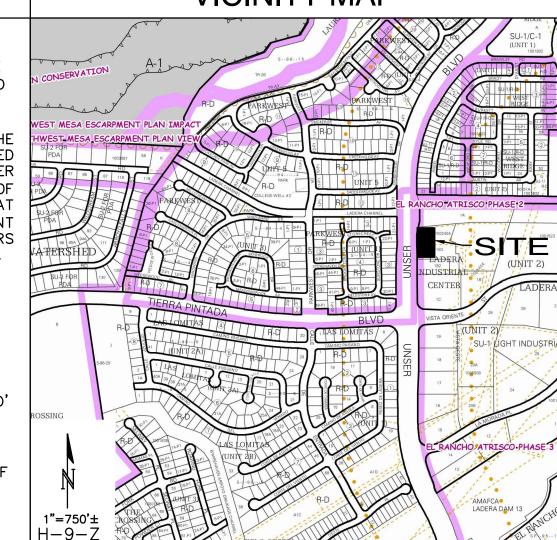
FLOOD HAZARD: THIS PROPERTY APPEARS TO LIE WITHIN "ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), WITH "ZONE A" (NO BASE FLOOD ELEVATIONS DETERMINED) ADJACENT TO THE NORTHERLY BOUNDARY ALONG THE LÁDERA DIVERSION CHANNEL, AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 35001C0326G, MAP REVISED SEPTEMBER

> FRED C. ARFMAN, P.E., NMPE 7322 ISAACSON & ARFMAN, PA 128 MONROE NE, 87111 TELEPHONE: (505) 268-8828

SCALE 1"=10'

RUSS P. HUGG., NMPS 9750 SURV-TEK CONSULTING SURVEYORS 9384 VALLEY VIEW DRIVE, 87114 TELEPHONE: (505) 897-3366

VICINITY MAP



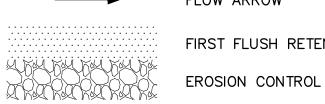
KEYED NOTES

KEYED NOTES SHOWN BELOW ARE FOR USE ON SHEETS CG-101 AND CG-102. NOT ALL NOTES ARE USED ON EACH SHEET.

- PROVIDE SWALE WITHIN NEW ASPHALT AT FLOWLINE ELEVATIONS SHOWN TO DIRECT FLOW (MINIMUM SLOPE = 1%).
- CONSTRUCT WATER HARVESTING BASIN WITHIN LANDSCAPING AT ELEVATIONS SHOWN TO COLLECT STORMWATER.
- BUILDING ROOF DISCHARGE LOCATION. EXTEND DRAIN PIPE THROUGH WALK TO RELEASE DIRECTLY TO FIRST FLUSH POND #1. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.
- 4. CONSTRUCT 1' WIDE (BOTTOM WIDTH) COVERED SIDEWALK CULVERT PER COA. STD. DWG. 2236 AT ELEVATIONS SHOWN TO PASS EMERGENCY OVERFLOW TO PAVEMENT.
- PROVIDE 1.0' WIDE CURB OPENING TO PASS CONCENTRATED FLOW. INSTALL ROCK EROSION PROTECTION WITHIN LANDSCAPING AT EACH CURB OPENING (2'X2' OR TO EXTENTS SHOWN). TOP OF ROCK = PAVEMENT FLOWLINE. SEE CG-501 FOR DÉTAIL.
- CONSTRUCT RETAINING WALL TO ACHIEVE GRADE DIFFERENCE SHOWN (2.5' MAX. RETAINING). SEE ARCHITECTURAL FOR
- SITE ACCESS STAIRS SEE ARCHITECTURAL FOR DETAILS.
- 8. SITE ACCESS RAMP / RETAINING WALL SEE ARCHITECTURAL
- 9. CONSTRUCT HANDICAP RAMPS PER ADA GUIDELINES. SLOPE AT 12:1 MAX. SEE ARCHITECTURAL FOR DETAILS. 10. CONSTRUCT ASPHALT PAVING AT ELEVATIONS SHOWN. SEE
- ARCHITECTURAL FOR PAVEMENT MATERIAL, JOINT INFORMATION, SECTIONS, PARKING LAYOUT, DIMENSIONS, STRIPING, ETC.
- 11. FIRST FLUSH POND (TEMPORARY). SEE INSERT THIS SHEET FOR CONTINUATION.
- 12. SLOPES WITHIN HANDICAP PARKING AREA TO MEET ADA REQUIREMENTS. MAX. SLOPE = 2% IN ANY DIRECTION. SEE ARCHITECTURAL PLANS FOR ADA PARKING DETAILS.
- 13. CONSTRUCT CONCRETE APRON (12" WIDE x 4" THICK WITH 6" TURNED-DOWN EDGE) THIS AREA. TOP OF APRON TO BE 0.1' BELOW F.F. ELEVATION TYPICAL. SLOPE @ 2%. SEE SHEET CG-501 FOR DETAIL.
- 14. RETAINING STEMWALL (1' MAX) REQUIRED THIS AREA. SEE ARCHITECTURAL.
- 15. CONSTRUCT PERCOLATION PIT (3 LOCATIONS) 10' MIN. FROM BUILDING. SEE SHEET CG-501 FOR DETAIL.
- 16. HATCHED AREA REPRESENTS EXTENTS OF 'FIRST FLUSH' RETENTION PONDING. CONSTRUCT TO ELEVATIONS SHOWN.

LEGEND

PROPOSED SPOT ELEVATION **4**03.8 — PROPOSED CONTOUR (1' INTERVAL) ---- PROPOSED CONTOUR (0.5' INTERVAL) ---- PROPOSED STORM DRAIN FLOW ARROW



FIRST FLUSH RETENTION POND

======= PROPOSED SITE RETAINING WALL

ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com 2116 CG-101.dwg May 19,2015

18 MAY 2015 BJB CHECKED BY: ANM VERIFIED BY:

MARTIN FM GRUMMER

ARCHITECT

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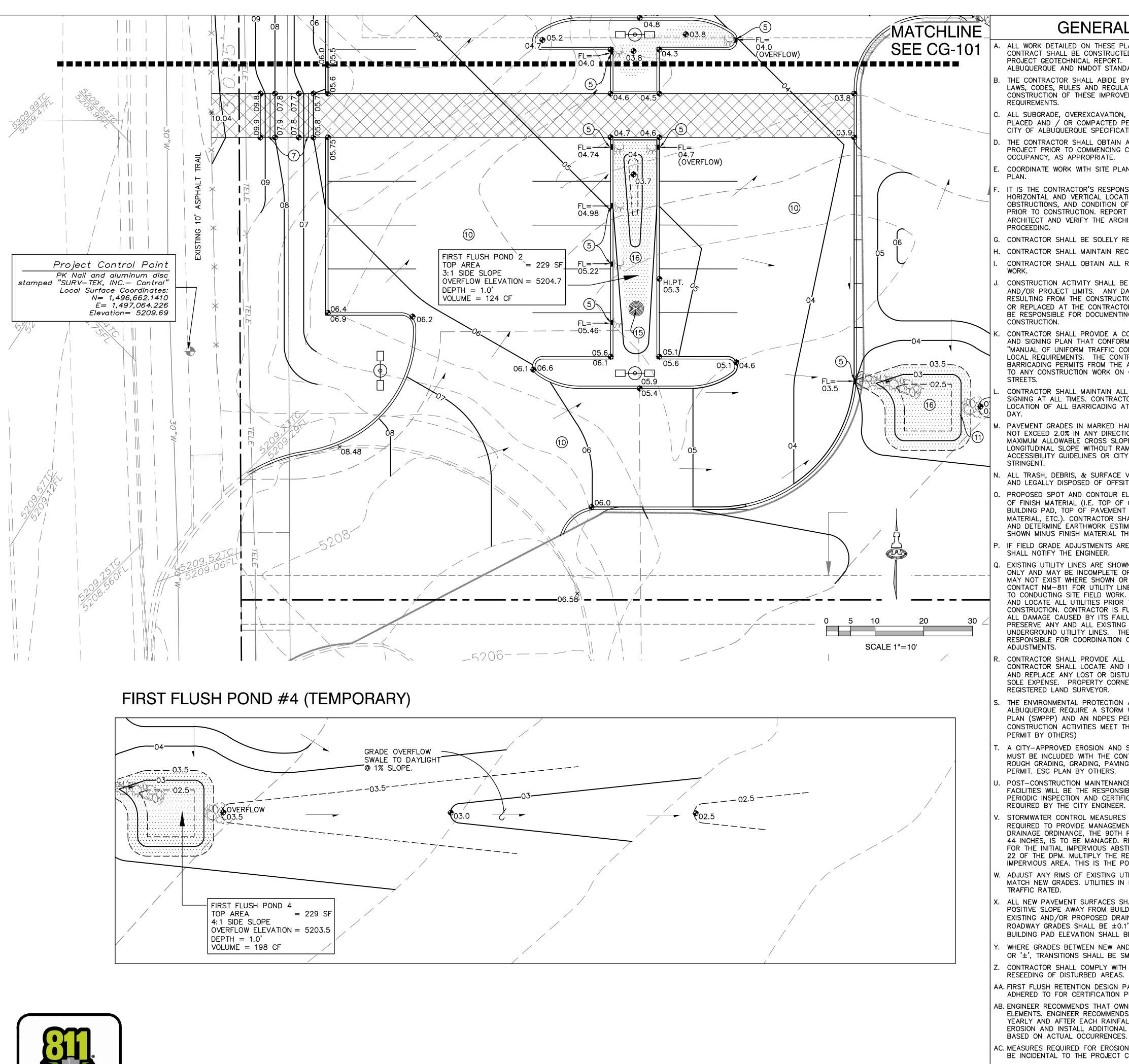
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EP.

REVISIONS

FCA

SHEET NO. CG-101



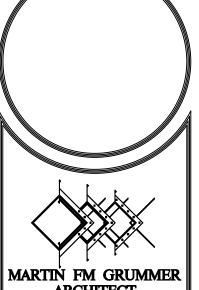
GENERAL NOTES

- A. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE AND NMDOT STANDARDS APPLY
- THE CONTRACTOR SHALL ABIDE BY ALL STATE, LOCAL, AND FEDERAL LAWS, CODES, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA AND ADA
- ALL SUBGRADE, OVEREXCAVATION, BACKFILL, AND FILL SHALL BE PLACED AND / OR COMPACTED PER THE GEOTECHNICAL REPORT AND
- CITY OF ALBUQUERQUE SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION, OR PRIOR TO
- COORDINATE WORK WITH SITE PLAN, UTILITY PLAN AND LANDSCAPE
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING OBSTRUCTIONS, AND CONDITION OF ALL EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION. REPORT ALL DISCREPANCIES TO THE ARCHITECT AND VERIFY THE ARCHITECT'S INTENT BEFORE
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SAFETY.
- I. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON SITE. CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT STRUCTURES
- RESÚLTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING EXISTING CONDITIONS PRIOR TO
- CONTRACTOR SHALL PROVIDE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN THAT CONFORMS TO THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN BARRICADING PERMITS FROM THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING
- CONTRACTOR SHALL MAINTAIN ALL BARRICADING AND CONSTRUCTION SIGNING AT ALL TIMES. CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH
- PAVEMENT GRADES IN MARKED HANDICAPPED PARKING AREAS SHALL NOT EXCEED 2.0% IN ANY DIRECTION. FOR ALL ACCESSIBLE ROUTES, MAXIMUM ALLOWABLE CROSS SLOPE IS 2.0% AND MAXIMUM LONGITUDINAL SLOPE WITHOUT RAMP IS 5.0%. FOLLOW ALL ADA ACCESSIBILITY GUIDELINES OR CITY CODES, WHICHEVER IS MORE
- ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OF OFFSITE.
- PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINÉ EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- Q. EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. CONTRACTOR SHALL CONTACT NM-811 FOR UTILITY LINE SPOTS TWO WORKING DAYS PRIOR TO CONDUCTING SITE FIELD WORK. CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF NECESSARY DRY UTILITY
- CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING. CONTRACTOR SHALL LOCATE AND PRESERVE ALL BOUNDARY CORNERS AND REPLACE ANY LOST OR DISTURBED CORNERS AT CONTRACTOR'S SOLE EXPENSE. PROPERTY CORNERS SHALL ONLY BE RESET BY A REGISTERED LAND SURVEYOR.
- THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE CITY OF ALBUQUERQUE REQUIRE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND AN NDPES PERMIT FOR PROJECTS WHERE CONSTRUCTION ACTIVITIES MEET THE EPA THRESHOLD. (SWPPP, NPDES PERMIT BY OTHERS)
- A CITY-APPROVED EROSION AND SEDIMENT CONTROL (ESC) PERMIT MUST BE INCLUDED WITH THE CONTRACTOR'S SUBMITTAL FOR A ROUGH GRADING, GRADING, PAVING, BUILDING, OR WORK ORDER PERMIT. ESC PLAN BY OTHERS.
- POST-CONSTRUCTION MAINTENANCE FOR PRIVATE STORMWATER FACILITIES WILL BE THE RESPONSIBLITY OF THE FACILITIES OWNER. PERIODIC INSPECTION AND CERTIFICATIONS OF THE FACILITIES MAY BE REQUIRED BY THE CITY ENGINEER.
- . STORMWATER CONTROL MEASURES SHOWN ON THIS PLAN ARE REQUIRED TO PROVIDE MANAGEMENT OF 'FIRST FLUSH'. PER THE CITY DRAINAGE ORDINANCE, THE 90TH PERCENTILE STORM EVENT, WHICH IS 44 INCHES, IS TO BE MANAGED. REDUCE 0.44 INCH BY THE 0.1 INCH FOR THE INITIAL IMPERVIOUS ABSTRACTION IN TABLE A-6 OF SECTION 22 OF THE DPM. MULTIPLY THE REMAINING 0.34 INCH BY THE IMPERVIOUS AREA. THIS IS THE PORTION TO RETAIN.
- W. ADJUST ANY RIMS OF EXISTING UTILITY FEATURES AS NECESSARY TO MATCH NEW GRADES. UTILITIES IN PAVED AREAS SHALL BE HS-25 TRAFFIC RATED.
- ALL NEW PAVEMENT SURFACES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE AWAY FROM BUILDINGS AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS. PAVING AND ROADWAY GRADES SHALL BE ±0.1' FROM PLAN ELEVATIONS. BUILDING PAD ELEVATION SHALL BE ±0.05' FROM PLAN ELEVATION.
- WHERE GRADES BETWEEN NEW AND EXISTING ARE SHOWN AS 'MATCH' OR '±', TRANSITIONS SHALL BE SMOOTH.
- CONTRACTOR SHALL COMPLY WITH LOCAL REGULATIONS FOR RESEEDING OF DISTURBED AREAS.
- AA. FIRST FLUSH RETENTION DESIGN PARAMETERS TO BE STRICTLY ADHERED TO FOR CERTIFICATION PURPOSES.
- AB. ENGINEER RECOMMENDS THAT OWNER MAINTAIN EROSION PROTECTION ELEMENTS. ENGINEER RECOMMENDS THAT OWNER INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED
- AC. MEASURES REQUIRED FOR EROSION AND SEDIMENT CONTROL SHALL BE INCIDENTAL TO THE PROJECT COST.
- AD. FIVE WORKING DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (811) FOR LOCATION OF EXISTING UTILITIES.

KEYED NOTES

KEYED NOTES SHOWN BELOW ARE FOR USE ON SHEETS CG-101 AND CG-102. NOT ALL NOTES ARE USED ON EACH SHEET.

- PROVIDE SWALE WITHIN NEW ASPHALT AT FLOWLINE
- ELEVATIONS SHOWN TO DIRECT FLOW (MINIMUM SLOPE = 1%). CONSTRUCT WATER HARVESTING BASIN WITHIN LANDSCAPING AT ELEVATIONS SHOWN TO COLLECT STORMWATER.
- BUILDING ROOF DISCHARGE LOCATION. EXTEND DRAIN PIPE THROUGH WALK TO RELEASE DIRECTLY TO FIRST FLUSH POND #1. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.
- CONSTRUCT 1' WIDE (BOTTOM WIDTH) COVERED SIDEWALK CULVERT PER COA. STD. DWG. 2236 AT ELEVATIONS SHOWN TO PASS EMERGENCY OVERFLOW TO PAVEMENT.
- PROVIDE 1.0' WIDE CURB OPENING TO PASS CONCENTRATED FLOW. INSTALL ROCK EROSION PROTECTION WITHIN LANDSCAPING AT EACH CURB OPENING (2'X2' OR TO EXTENTS SHOWN). TOP OF ROCK = PAVEMENT FLOWLINE. SEE CG-501
- FOR DÉTAIL. CONSTRUCT RETAINING WALL TO ACHIEVE GRADE DIFFERENCE SHOWN (2.5' MAX. RETAINING). SEE ARCHITECTURAL FOR
- 7. SITE ACCESS STAIRS SEE ARCHITECTURAL FOR DETAILS.
- 8. SITE ACCESS RAMP / RETAINING WALL SEE ARCHITECTURAL FOR DETAILS.
- CONSTRUCT HANDICAP RAMPS PER ADA GUIDELINES. SLOPE AT 12:1 MAX. SEE ARCHITECTURAL FOR DETAILS.
- 10. CONSTRUCT ASPHALT PAVING AT ELEVATIONS SHOWN. SEE ARCHITECTURAL FOR PAVEMENT MATERIAL, JOINT INFORMATION, SECTIONS, PARKING LAYOUT, DIMENSIONS, STRIPING, ETC.
- 11. FIRST FLUSH POND (TEMPORARY). SEE INSERT THIS SHEET FOR CONTINUATION.
- 12. SLOPES WITHIN HANDICAP PARKING AREA TO MEET ADA REQUIREMENTS. MAX. SLOPE = 2% IN ANY DIRECTION. SEE ARCHITECTURAL PLANS FOR ADA PARKING DETAILS.
- 13. CONSTRUCT CONCRETE APRON (12" WIDE x 4" THICK WITH 6" TURNED-DOWN EDGE) THIS AREA. TOP OF APRON TO BE 0.1' BELOW F.F. ELEVATION TYPICAL. SLOPE @ 2%. SEE SHEET CG-501 FOR DETAIL.
- 14. RETAINING STEMWALL (1' MAX) REQUIRED THIS AREA. SEE ARCHITECTURAL.
- 15. CONSTRUCT PERCOLATION PIT (3 LOCATIONS) 10' MIN. FROM BUILDING. SEE SHEET CG-501 FOR DETAIL.
- 16. HATCHED AREA REPRESENTS EXTENTS OF 'FIRST FLUSH' RETENTION PONDING. CONSTRUCT TO ELEVATIONS SHOWN.



ARCHITECT 331 WELLESLEY PLACE NE ALBUQUERQUE, NEW MEXICO 87106

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18 MAY 2015 DRAWN BY: BJB CHECKED BY:

FCA REVISIONS

ANM

FIRST FLUSH RETENTION POND

VERIFIED BY:

SHEET NO: CG-102

LEGEND

♦03.8 PROPOSED SPOT ELEVATION — PROPOSED CONTOUR (1' INTERVAL)

---- PROPOSED CONTOUR (0.5' INTERVAL) ---- PROPOSED STORM DRAIN

FLOW ARROW

======= PROPOSED SITE RETAINING WALL

EROSION CONTROL

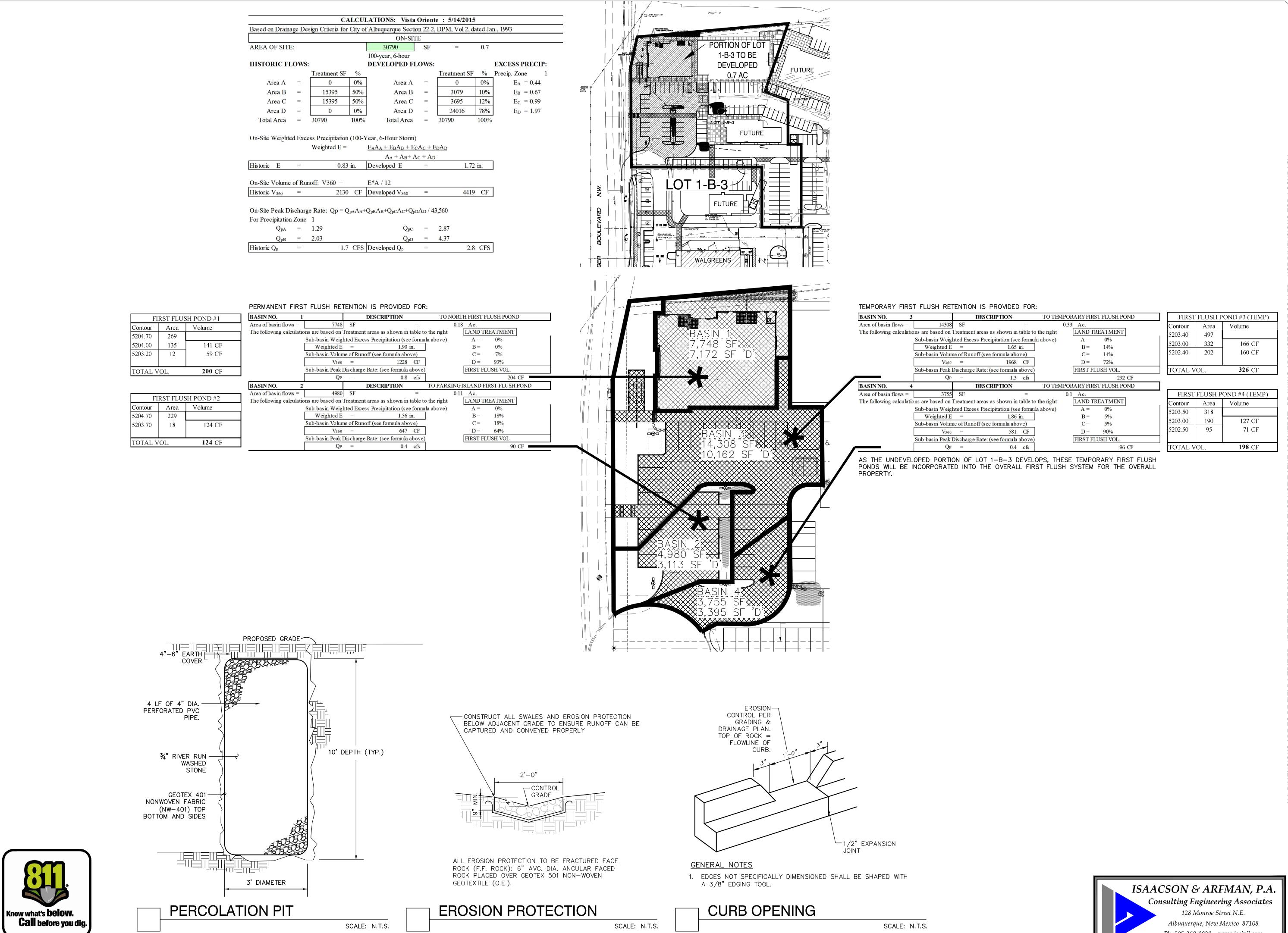
ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108

2116 CG-101.dwg

Ph. 505-268-8828 www.iacivil.com

May 19,2015

Know what's **below**. **Call** before you dig.



MARTIN FM GRUMMER
ARCHITECT

331 WELLESLEY PLACE NE
ALBUQUERQUE, NEW MEXICO 87106

I I I

UNSER & VISTA ORIENTE SHELL BÜILDING ALBUQUERQUE, NM 87114

7322 WENTER TO THE TOTAL T

DATE:

18 MAY 2015

DRAWN BY:

BJB

CHECKED BY:

ANM

VERIFIED BY:

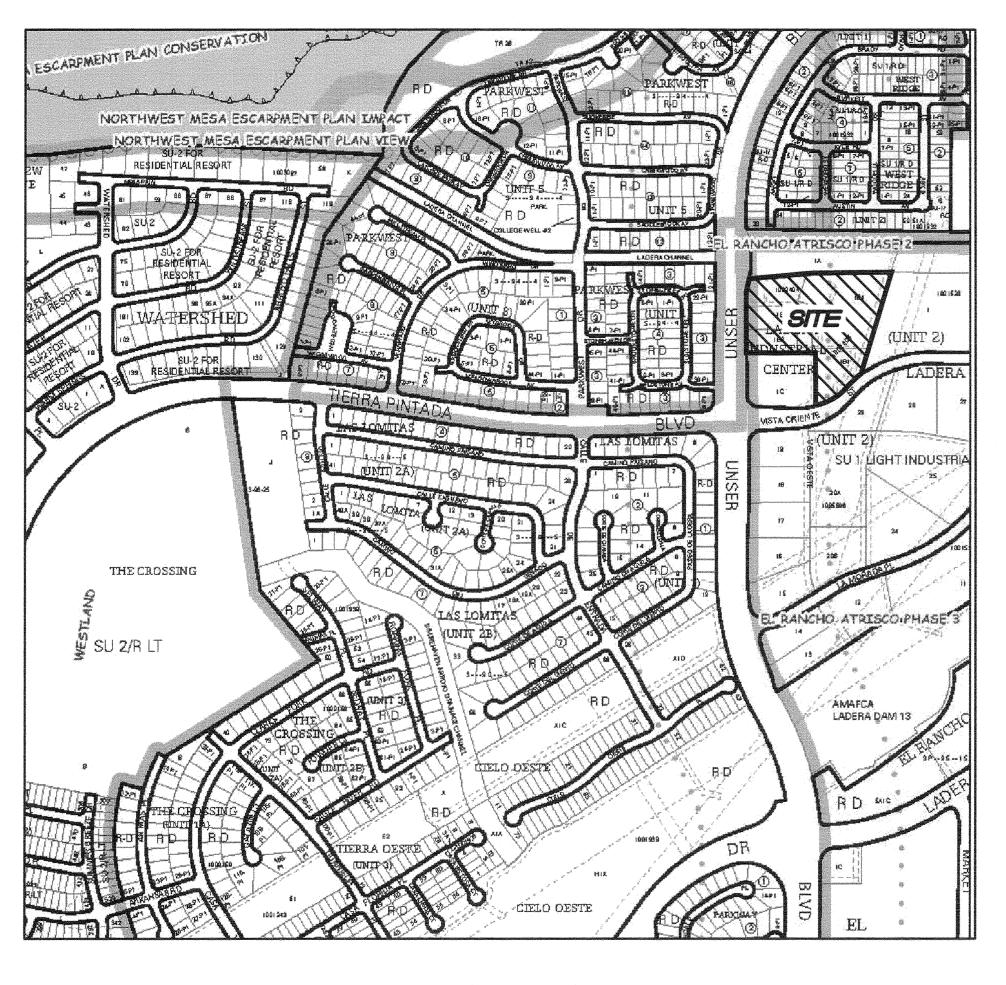
FCA

REVISIONS

SHEET NO:

CG-501

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VICINITY MAP

GENERAL NOTES

- 1. Bearings are New Mexico State Plane Grid Bearings (Central Zone - NAD83).
- Distances are ground.
- 3. Distances along curved lines are arc lengths.
- 4. Record Plat or Deed bearings and distances, where they differ from those established by this field survey, are shown in parenthesis ().
- 5. All corners found in place and held were tagged with a brass disk stamped "HUGG L.S. 9750" unless otherwise indicated hereon.
- "HUGG L.S. 9750" or a concrete nail with brass disk stamped "HUGG L.S. 9750" unless otherwise indicated hereon.

6. All corners that were set are either a 5/8" rebar with cap stamped

- 7. Vertical datum shown hereon was derived from the Albuquerque Control Survey Monument "4-H9" having a published elevation of 5209.315 feet (NAVD 88).
- 8. Contour interval shown hereon is one (1') foot.
- 9. Field surveys were performed during the month of August, 2012
- 10. This property is subject to the exceptions listed in SCHEDULE B SECTION II of the Proforma Title Policy prepared for this property by LandAmerica Albuquerque Title, File No. 6217000586, dated January
- 11. The above described Proforma Title Policy was used in defining easements as shown hereon. Circled numbers by the easement description correspond to the Proforma Title Policy's SCHEDULE B -SECTION II item number. Where possible, said easements have been plotted.
- 12. Existing utility line locations are shown in an approximate manner only, and such lines may or may not exist where shown or not shown. The location of any such existing lines is based on information provided by visual surface indications and the information may be incomplete or may be obsolete by the time this survey is completed. All utilities should be field verified and spotted by the contractor(s) prior to commencement of any construction.
- 13. City of Albuquerque Zone Atlas Page: H-9-Z

DOCUMENTS USED IN THE PREPARATION OF THIS SURVEY:

- A. Plat entitled "PLAT OF LOTS 1 AND 2, LADERA INDUSTRIAL CENTER, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DECEMBER 1992", filed February 12, 1993, in Volume 93C, Folio 39, records of Bernalillo County, New Mexico.
- B. Plat entitled "EL RANCHO ATRISCO, PHASE II, TRACTS A-1 AND B-1, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, NOVEMBER, 1986", filed February 12, 1987, in Volume C32, Folio 185, records of Bernalillo County, New Mexico.
- C. Plat entitled "EL RANCHO ATRISCO, PHASE III, TRACTS 5-A, 6-A AND THE BIKE AND JOGGING TRAIL, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, NOVEMBER, 1986", filed February 12, 1987, in Volume C32, Folio 184, records of Bernalillo County, New Mexico.
- Volume 2004C, Folio 194, records of Bernalillo County, New Mexico.

EASEMENT NOTES

Existing Mutual Cross Lot Vehicular Access easement for the benefit of Lots 1—B—1 thru 1—B—4 granted by plat filed January 26, 2012. Said easement shall run over the surface of vehicular drive aisles if and as they may exist from time to time and at any applicable time. Maintenance of said easement shall be the responsibility of the respective lot owners as to the portion contained within their respective lot.

Existing Mutual Cross Lot Drainage easement for the benefit of Lots 1—B—1 thru 1—B—4 granted by plat filed January 26, 2012. Said easement shall run over, under and across the Common Areas (meaning those areas of lot not occupied by a building from time to time and at any applicable time). Maintenance of said easement shall be the responsibility of the respective lot owners as to the portion contained within their respective lot.

EASEMENT LEGEND

A = Proposed 20' Driveway Access Permit From N.M.D.O.T. as Shown on Plat Filed 6-24-04, Vol. 2004C, Folio 194

B = Existing 20' Public Waterline Easement granted to the Albuquerque Bernalillo County Water Utility Authority by plat filed January 26, 2012.

(C) = Existing 10' Private Storm Sewer Easement granted by plat filed January 26, 2012 for the benefit of Lots 1—C and 1—B—1. Maintence shall be the responsibility of the owners of Lot 1-B-1.

LEGAL DESCRIPTION

Lots 1-B-1, 1-B-2, 1-B-3 and 1-B-4, Ladera Industrial Center as the same are shown and designated on the plat entitled "LOTS 1-B-1, 1-B-2, 1-B-3 AND 1-B-4, LADERA INDUSTRIAL CENTER. (BEING A REPLAT OF LOTS 1—B AND 1—D, LADERA INDUSTRIAL CENTER) WITHIN THE TOWN OF ATRISCO GRANT IN PROJECTED SECTION 9, TOWNSHIP 10 NORTH, RANGE 2 EAST. NEW MEXICO PRINCIPAL MERIDIAN. CITY OF ALBUQUERQUE, NEW MEXICO". filed in the office of the County Clerk of Bernalillo County, New Mexico, on January 26, 2012, in Plat Book 2012C, page 7.

BOUNDARY AND TOPOGRAPHIC SURVEY

LOTS 1-B-1 THRU 1-B-4

LADERA INDUSTRIAL CENTER

THE TOWN OF ATRISCO GRANT

PROJECTED SECTION 9, TOWNSHIP 10 NORTH, RANGE 2 EAST

NEW MEXICO PRINCIPAL MERIDIAN CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO AUGUST, 2012

FLOOD ZONE DETERMINATION

This property appears to lie within "Zone X" (Areas determined to be outside the 0.2% annual chance flood plain), with "ZONE A" (No Base Flood Elevations determined) adjacent to the northerly boundary along the Ladera Diversion Channel, as shown on National Flood Insurance Program Flood Insurance Rate Map Number 35001C0326G, Map Revised September 26, 2008.

SURVEYORS CERTIFICATION

l, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that this Boundary and Topographic Survey Plat was prepared from an actual ground survey performed by me or under my supervision; that I am responsible for this survey; that this survey is true and correct to the best of my knowledge and belief; and that this Boundary and Topographic Survey Plat and the field survey upon which it is based meet the Minimum Standards for Surveying in New Mexico; and that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act and that this is a Boundary and Topographic Survey Plat of four

IN WITNESS WHEREOF, this certificate is executed at Albuquerque, New Mexico, on this 30th day of August, 2012.

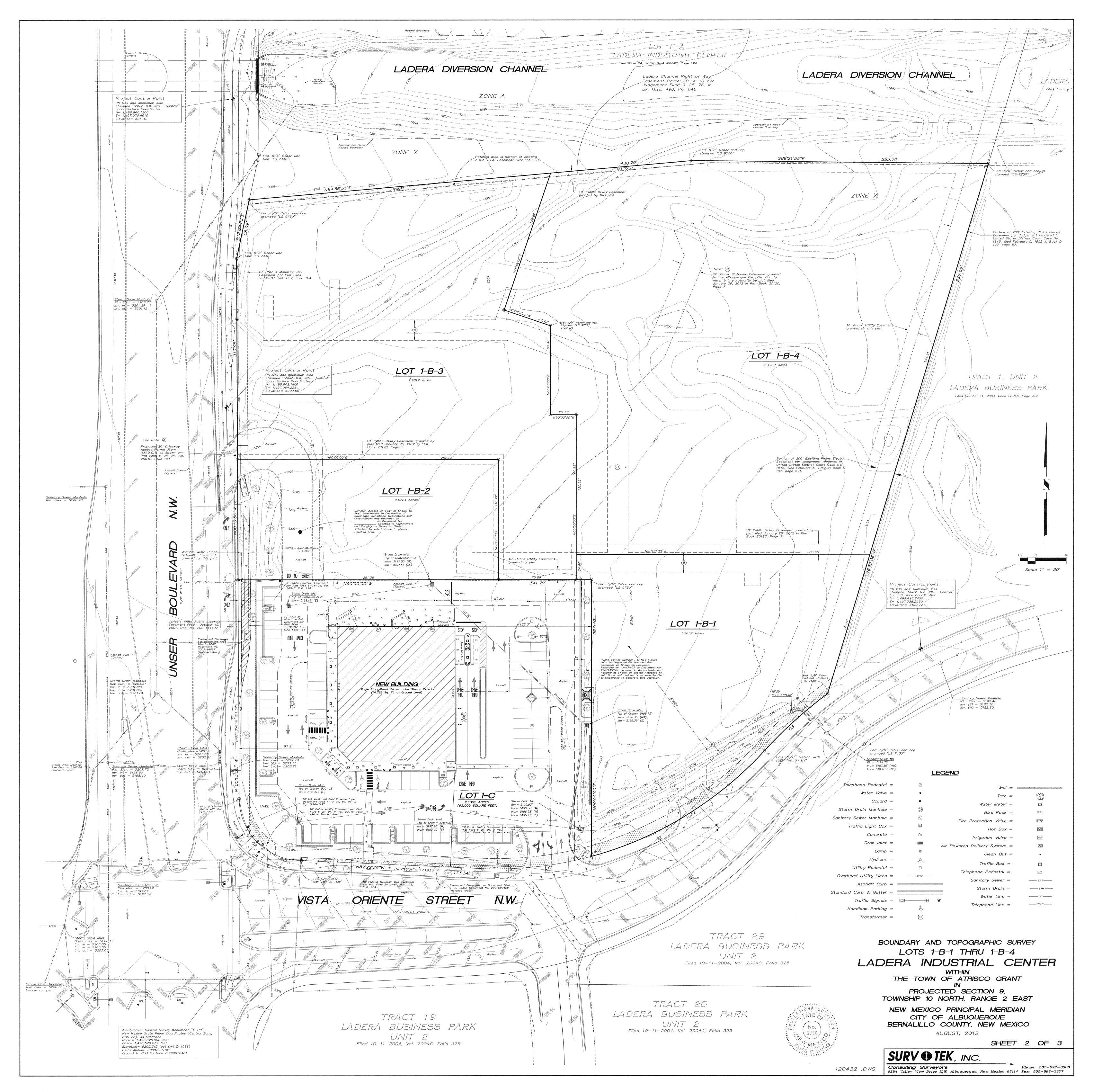


SHEET 1 OF 3

SURV TEK, INC.

Consulting Surveyors Phone: 505-897-3366 9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

existing lots.



TOPOGRAPHIC DESIGN SURVEY INTERSECTION OF UNSER BOULEVARD AND LADERA DRIVE N.W. Project Control Point

PK Nail and aluminum disc
stamped "SURV-TEK, INC.- Control"
Local Surface Coordinates:
N= 1,494,577.6450
E= 1,497,323.1560
Elevation= 5204.89 CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO AUGUST, 2012 TRACT 6-A EL RANCHO ATRISCO PHASE ||| Filed 2-12-1987, Vol. C32, Folio 184 GENERAL NOTES Bearings are New Mexico State Plane Grid Bearings (Central Zone — NAD83). 2. Distances are ground. 3. Distances along curved lines are arc lengths. 4. No property corners were set or established by this survey. 5. Vertical datum shown hereon was derived from the Albuquerque Control Survey Monument "4—H9" having a published elevation of 5209.315 feet (NAVD 88). 6. Contour interval shown hereon is one (1') foot. 7. Field surveys were performed during the month of August, 2012 8. City of Albuquerque Zone Atlas Page: H-9-Z Fd. 1/2" Rebar and cap stamped "L.S. 11993" Scale 1" = 30' LEGEND Fd. 1/2" Rebar and cap stamped "L.S. 11993" Concrete = Drop Inlet = TRACT H-1-A CIELO OESTE Standard Curb & Gutter = UNIT 3 Filed 12-10-2002, Vol. 2002C, Folio 393 Traffic Signals = □ ₩ $Traffic\ Box =$ TRACT 5-A-1C EL RANCHO ATRISCO PHASE ||| Filed 6-29-1995, Vol. 95C, Folio 241 White Stripe White Stripe LADERA DRIVE N.W. White Stripe TRACT 1-C EL RANCHO ATRISCO PHASE III Filed 5-13-1996, Vol. 96C, Folio 195 PARKWAY SURVEYORS CERTIFICATION I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that this Topographic Survey was prepared from an actual ground survey performed by me or under my supervision; that I am responsible for this survey; that this survey is true and correct to the best of my knowledge and belief; and that this Topographic Survey and the field survey upon which it is based meet the Minimum Standards for Surveying in New Mexico; this is not a boundary survey, apparent property corners and property lines are shown for orientation only and that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act. Filed 8-11-1992, Vol. 92C, Folio 171 IN WITNESS WHEREOF, this certificate is executed at Albuquerque, New Mexico, on this 10th day of August, 2012. SHEET 3 OF 3 SURV TEK, INC. Consulting Surveyors

Phone: 505-897-3366
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377 Phone: 505-897-3366 120432 .DWG