CITY OF ALBUQUERQUE



September 14, 2012

Fred C. Arfman, P.E.

freda@iacivil.com

Isaacson & Arfman, P.A. 128 Monroe Street N.E. Albuquerque, NM 87108

Re: Lowe's Subdivision Phase I, 3400 NM 528,

Request for Permanent C.O. -Accepted

Engineer's Stamp dated: 02-08-12, (A14/D006B)

Certification dated: 09-13-12

Dear Mr. Arfman,

Based upon the information provided in the Certification received 09-13-12, the above referenced Certification is acceptable for a release of a Permanent Certificate of Occupancy by Hydrology.

PO Box 1293

Hydrology is asking for an electronic copy, in .pdf format, of this certification for our records. This certification can be e-mailed to me at: <u>tsims@cabq.gov</u>.

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

Albuquerque

NM 87103

www.cabq.gov

Timothy E. Sinns,

Sinderely,

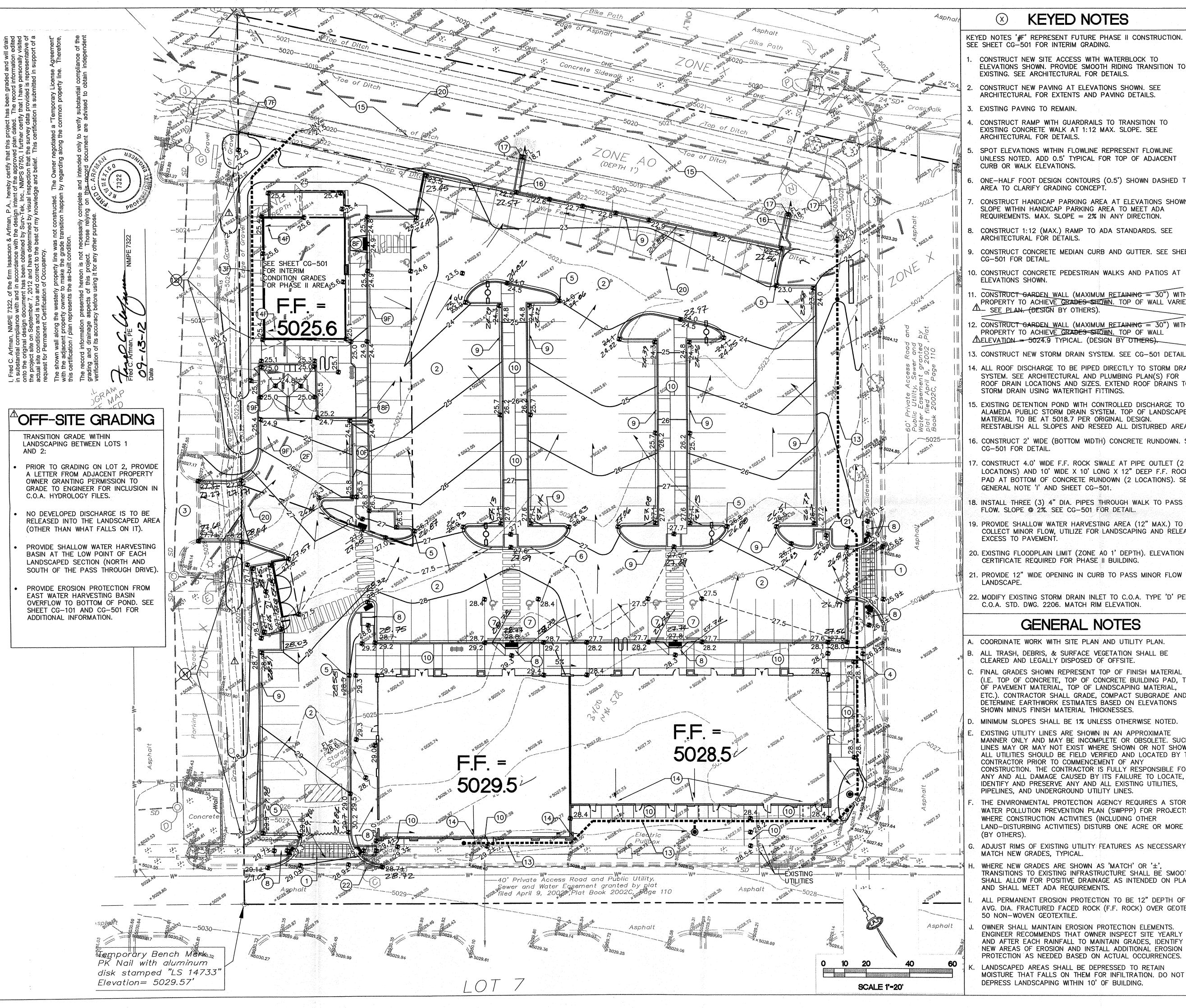
Plan Checker—Hydrology Section Development and Building Services

C: CO Clerk—Katrina Sigala File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (Rev. 12/05)

PROJECT TITLE: Low	e's Subdivision, Lot 3	ZONE MAP/DRG. FIL	E # A-14 / D006B		
DRB#: EP	'C#:	WORK ORDER#:			
LEGAL DESCRIPTION: Low	e's Subdivision, Lot 3, Albuquer	que, New Mexico			
CITY ADDRESS: 3	100 NW 528				
ENGINEERING FIRM: ISA.	ACSON & ARFMAN, PA		Fred Arfman		
ADDRESS: 128	MONROE NE	PHONE:	268-8828		
CITY, STATE: <u>AL</u> E	BUQUERQUE, NM	ZIP CODE:	87108		
		CONTACT			
OWNER:					
ADDRESS:					
CITY, STATE:		ZIP CODE			
ADQUITEGT. Mad	dulus Architects	CONTACT:	Stephen Dunbar		
			338-1499		
ADDRESS:					
CILI, STATE.					
STIRVEYOR: Sur	v-Tek, Inc.	CONTACT:			
ADDRESS: 938	4 Valley View Drive, NW	PHONE:			
CITY STATE: Alb	uquerque, NM	ZIP CODE:	87114		
<u> </u>	<u> </u>				
CONTRACTOR:		CONTACT:			
ADDRESS:		PHONE:			
CITY, STATE:		ZIP CODE:			
			COLICIT.		
TYPE OF SUBMITTAL:	-	CHECK TYPE OF APPROVAL	SOUGHI:		
DRAINAGE REPOR	KT .	SIA/FINANCIAL GUA	SIA/FINANCIAL GUARANTEE RELEASE		
DRAINAGE PLAN		PRELIMINARY PLAT APPROVAL			
DRAINAGE PLAN		S. DEV. PLAN FOR S	S. DEV. PLAN FOR SUB'D APPROVAL		
CONCEPTUAL G &	: D PLAN .	SECTOR DI ANIARDE	S. DEV. FOR BLDG. PERMIT APPROVAL SECTOR PLAN APPROVAL		
GRADING PLAN		FINAL PLAT APPRO	VAI		
EROSION CONTRO		FOUNDATION PERM	FINAL PLAT APPROVAL FOUNDATION PERMIT APPROVAL		
X ENGINEER'S CERT	(HYDROLOGY)	PLUI DING PERMIT	BUILDING PERMIT APPROVAL		
CLOMR/LOMR	ATION I AVOUT	Y CERTIFICATE OF OC	X CERTIFICATE OF OCCUPANCY (PERM)		
TRAFFIC CIRCULA		CERTIFICATE OF OC	CERTIFICATE OF OCCUPANCY (TEMP)		
ENGINEER/ARCHI	TECT CERT (TCL) TECT CERT (DRB S.P.)	GRADING PERMIT A	GRADING PERMIT APPROVAL		
ENGINEER/ARCHI	•		PAVING PERMIT APPROVAL		
OTHER (SPECIFY)	(1201 0211 (133)	WORK ORDER APPR			
UTHER (SPECIFT)		OTHER (SPECIFY)			
WAS A PRE-DESIGN CONF	ERENCE ATTENDED:		0 17-17		
YES			9-13-12		
NO NO					
COPY PROVIDED					
SUBMITTED BY: Free	ed Arfman	DATE: <u>9/13/2012</u>			
Requests for approvals of Site	Development Plans and/or Subo	livision Plats shall be accompani	ed by a dramage Submittal. The		
particular nature, location and	scope to the proposed developm	ient define the degree of drainage	e detail. One or more of the follow		
levels of submittal may be rec	uired based on the following:				

- I. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.



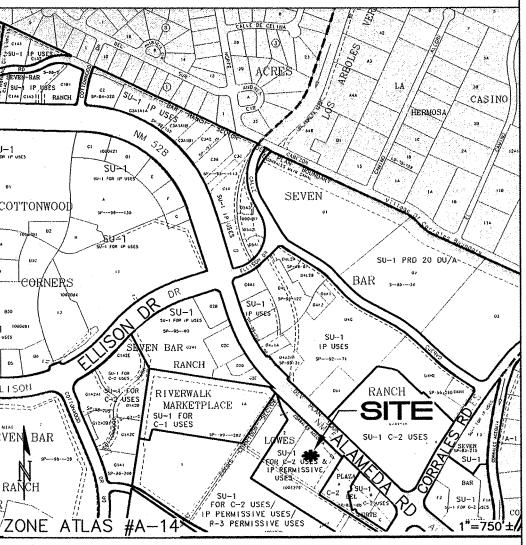
KEYED NOTES

- KEYED NOTES '#F' REPRESENT FUTURE PHASE II CONSTRUCTION. SEE SHEET CG-501 FOR INTERIM GRADING.
- CONSTRUCT NEW SITE ACCESS WITH WATERBLOCK TO ELEVATIONS SHOWN. PROVIDE SMOOTH RIDING TRANSITION TO EXISTING. SEE ARCHITECTURAL FOR DETAILS.
- CONSTRUCT NEW PAVING AT ELEVATIONS SHOWN. SEE ARCHITECTURAL FOR EXTENTS AND PAVING DETAILS.
- EXISTING PAVING TO REMAIN.
- CONSTRUCT RAMP WITH GUARDRAILS TO TRANSITION TO EXISTING CONCRETE WALK AT 1:12 MAX. SLOPE. SEE ARCHITECTURAL FOR DETAILS.
- SPOT ELEVATIONS WITHIN FLOWLINE REPRESENT FLOWLINE UNLESS NOTED. ADD 0.5' TYPICAL FOR TOP OF ADJACENT CURB OR WALK ELEVATIONS.
- 6. ONE-HALF FOOT DESIGN CONTOURS (0.5') SHOWN DASHED THIS AREA TO CLARIFY GRADING CONCEPT.
- CONSTRUCT HANDICAP PARKING AREA AT ELEVATIONS SHOWN. SLOPE WITHIN HANDICAP PARKING AREA TO MEET ADA REQUIREMENTS. MAX. SLOPE = 2% IN ANY DIRECTION.
- CONSTRUCT 1:12 (MAX.) RAMP TO ADA STANDARDS. SEE ARCHITECTURAL FOR DETAILS.
- CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE SHEET CG-501 FOR DETAIL.
- 10. CONSTRUCT CONCRETE PEDESTRIAN WALKS AND PATIOS AT ELEVATIONS SHOWN.
- CONSTRUCT GARDEN WALL (MAXIMUM RETAINING = 30") WITHIN PROPERTY TO ACHIEVE GRADES SHOWN. TOP OF WALL VARIES 1 SEE PLAN. (DESIGN BY OTHERS).
- 12. CONSTRUCT GARDEN WALL (MAXIMUM RETAINING = 30") WITHIN PROPERTY TO ACHIEVE GRADES SHOWN. TOP OF WALL DELEVATION - 5024.9 TYPICAL. (DESIGN BY OTHERS).
- 13. CONSTRUCT NEW STORM DRAIN SYSTEM. SEE CG-501 DETAILS
- 4. ALL ROOF DISCHARGE TO BE PIPED DIRECTLY TO STORM DRAIN SYSTEM. SEE ARCHITECTURAL AND PLUMBING PLAN(S) FOR ROOF DRAIN LOCATIONS AND SIZES. EXTEND ROOF DRAINS TO STORM DRAIN USING WATERTIGHT FITTINGS.
- 15. EXISTING DETENTION POND WITH CONTROLLED DISCHARGE TO ALAMEDA PUBLIC STORM DRAIN SYSTEM. TOP OF LANDSCAPE MATERIAL TO BE AT 5018.7 PER ORIGINAL DESIGN. REESTABLISH ALL SLOPES AND RESEED ALL DISTURBED AREAS
- 16. CONSTRUCT 2' WIDE (BOTTOM WIDTH) CONCRETE RUNDOWN. SE CG-501 FOR DETAIL.
- 7. CONSTRUCT 4.0' WIDE F.F. ROCK SWALE AT PIPE OUTLET (2 LOCATIONS) AND 10' WIDE X 10' LONG X 12" DEEP F.F. ROCK PAD AT BOTTOM OF CONCRETE RUNDOWN (2 LOCATIONS). SEE GENERAL NOTE 'I' AND SHEET CG-501.
- 18. INSTALL THREE (3) 4" DIA. PIPES THROUGH WALK TO PASS FLOW. SLOPE @ 2%. SEE CG-501 FOR DETAIL.
- COLLECT MINOR FLOW, UTILIZE FOR LANDSCAPING AND RELEASE EXCESS TO PAVEMENT.
- 20. EXISTING FLOODPLAIN LIMIT (ZONE AO 1' DEPTH). ELEVATION CERTIFICATE REQUIRED FOR PHASE II BUILDING.
- 21. PROVIDE 12" WIDE OPENING IN CURB TO PASS MINOR FLOW TO
- 22. MODIFY EXISTING STORM DRAIN INLET TO C.O.A. TYPE 'D' PER C.O.A. STD. DWG. 2206. MATCH RIM ELEVATION.

GENERAL NOTES

- A. COORDINATE WORK WITH SITE PLAN AND UTILITY PLAN.
- ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OF OFFSITE.
- FINAL GRADES 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 DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- MINIMUM SLOPES SHALL BE 1% UNLESS OTHERWISE NOTED.
- 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. ALL UTILITIES SHOULD BE FIELD VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE. IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
- THE ENVIRONMENTAL PROTECTION AGENCY REQUIRES A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR PROJECTS WHERE CONSTRUCTION ACTIVITIES (INCLUDING OTHER LAND-DISTURBING ACTIVITIES) DISTURB ONE ACRE OR MORE (BY OTHERS).
- ADJUST RIMS OF EXISTING UTILITY FEATURES AS NECESSARY TO MATCH NEW GRADES, TYPICAL.
- WHERE NEW GRADES ARE SHOWN AS 'MATCH' OR '±', TRANSITIONS TO EXISTING INFRASTRUCTURE SHALL BE SMOOTH, SHALL ALLOW FOR POSITIVE DRAINAGE AS INTENDED ON PLAN AND SHALL MEET ADA REQUIREMENTS.
- ALL PERMANENT EROSION PROTECTION TO BE 12" DEPTH OF 6" AVG. DIA. FRACTURED FACED ROCK (F.F. ROCK) OVER GEOTEX 50 NON-WOVEN GEOTEXTILE.
- OWNER SHALL MAINTAIN EROSION PROTECTION ELEMENTS. ENGINEER RECOMMENDS THAT OWNER INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO MAINTAIN GRADES, IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.
- LANDSCAPED AREAS SHALL BE DEPRESSED TO RETAIN MOISTURE THAT FALLS ON THEM FOR INFILTRATION. DO NOT DEPRESS LANDSCAPING WITHIN 10' OF BUILDING.

GENERAL NOTES



PROJECT INFORMATION

PROPERTY: THE SITE IS AN UNDEVELOPED PROPERTY ZONED 'SU-1 FOR C-2 USES & IP PERMISSIVE USES' LOCATED WITHIN C.O.A. VICINITY MAP A-14. THE SITE IS BOUND TO THE NORTH BY N.M. STATE HIGHWAY 528, AND TO THE WEST, SOUTH AND EAST BY DEVELOPED COMMERCIAL PROPERTY.

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE A 14,000 SF(±) MULTI TENANT BUILDING AND A 2200 SF(±) RESTAURANT WITH ASSOCIATED ASPHALT PAVED ACCESS, PARKING AND LANDSCAPING.

LOT 3, LOWES SUBDIVISION, ALBUQUERQUE, NM

BENCHMARK: VERTICAL DATUM IS BASED UPON THE ALBUQUERQUE CONTROL STATION MONUMENT "NM-448-N12", ELEVATION = 5,026.132 FEET (NAVD 1988) AS PUBLISHED.

NO OFF-SITE DRAINAGE AFFECTS THIS PROPERTY.

FLOOD HAZARD: PER BERNALILLO COUNTY FIRM MAP #35001C0109G DATED SEPTEMBER 26, 2008, THE MAJORITY OF THE SITE IS LOCATED WITHIN FLOODZONE 'X' DESIGNATED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2-PERCENT-ANNUAL-CHANCE FLOODPLAIN. A PORTION OF THE NORTH AND WEST ENDS OF THE PROPERTY FALLS WITHIN FLOODZONE AO (DEPTH 1') DESIGNATED AS AREAS OF SHEET-FLOW SHALLOW FLOODING TO A DEPTH OF 1'.

DRAINAGE PLAN CONCEPT:

A PRIVATE STORM DRAIN SYSTEM WILL BE INSTALLED TO COLLECT ROOF DISCHARGE AND ROUTE TO THE EXISTING MASTER PLANNED DETENTION POND. THE REMAINDER OF THE SITE WILL SURFACE FLOW TO THE MASTER PLANNED DETENTION POND. CONTROLLED RUNOFF FROM THE POND IS PASSED TO THE EXISTING ALAMEDA STORM SEWER AT THE ALLOWABLE RATE.

LEGEND

PROPOSED CONTOUR - 1' INCREMENT PROPOSED CONTOUR - 0.5' INCREMENT

PROPOSED SPOT ELEVATION

FLOW ARROW F.F.=XXXX.XX FINISH FLOOR ELEVATION

EXISTING ELEVATION (±) TO MATCH. PROVIDE SMOOTH TRANSITION.

PROPOSED RETAINING WALL GRADE BREAK

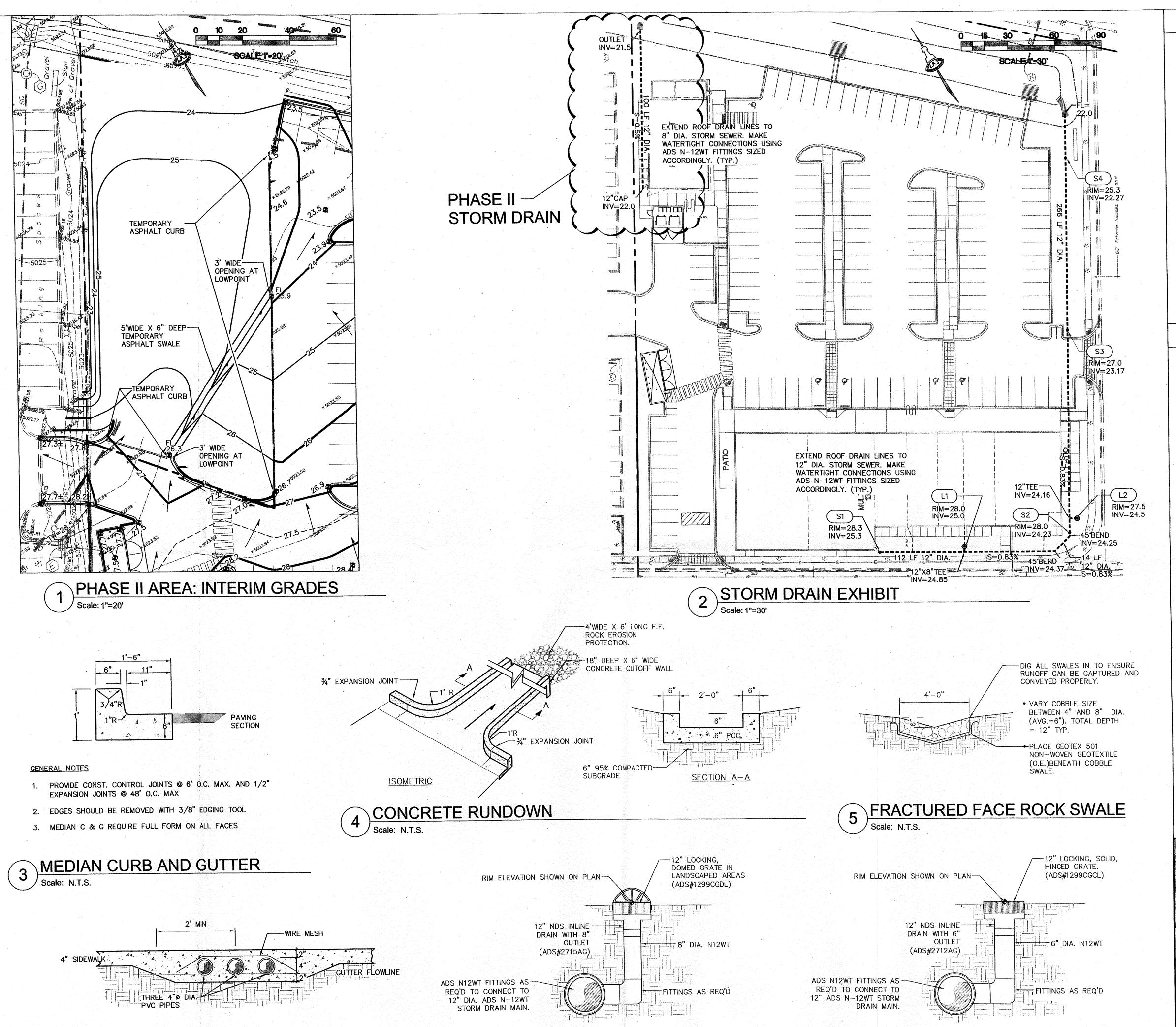


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LOWE'S SUBDIVISION, LOT 3

GRADING AND DRAINAGE PLAN

Date: 01.24.12	No.	Revision: STORM DRAIN REVISED	Date: 4/23/12	Job No. 1899
Drawn By: BJB				CG-101
Ckd By: FCA				SH. OF



IN-LINE DRAIN: DOMED GRATE

SEE STORM DRAIN EXHIBIT (L#

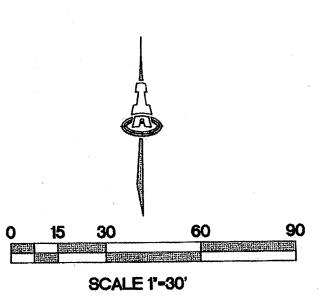
6 UNDERWALK PIPE DRAINS

Scale: N.T.S.

LEGEND

IN-LINE DRAIN: DOMED GRATE. SEE DETAIL THIS SHEET.

IN-LINE DRAIN CLEANOUT: SOLID LID. SEE DETAIL THIS SHEET.

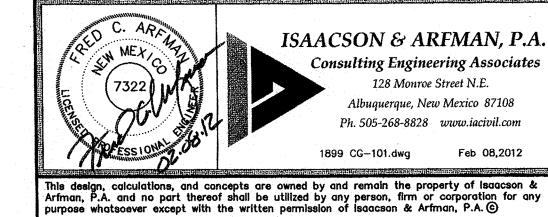


STORM DRAIN NOTES

A. INSTALL ALL STORM DRAIN INLETS AND PIPE PER MANUFACTURER'S SPECIFICATIONS.

B. ALL STORM DRAIN LINES AND FITTINGS TO BE ADS N-12WT WATERTIGHT O.A.E. UNLESS OTHERWISE NOTED.

C. STORM DRAIN SYSTEM WILL REQUIRE REGULAR MAINTENANCE TO ENSURE PROPER FUNCTIONING DURING STORM EVENTS. ENGINEER RECOMMENDS THAT PROPERTY OWNER PUT IN PLACE INSPECTION AND MAINTENANCE CRITERIA SCHEDULED TO OCCUR MONTHLY AND AFTER EACH STORM EVENT.



IN-LINE DRAIN CLEANOUT: SOLID LID

SEE STORM DRAIN EXHIBIT (S#)

Scale: N.T.S.

ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com

1899 CG-101.dwg

LOWE'S SUBDIVISION, LOT 3

PAVING AND DRAINAGE DETAILS

Job No. 1899 01.24.12 CG-501 Ckd By: SH. OF FCA