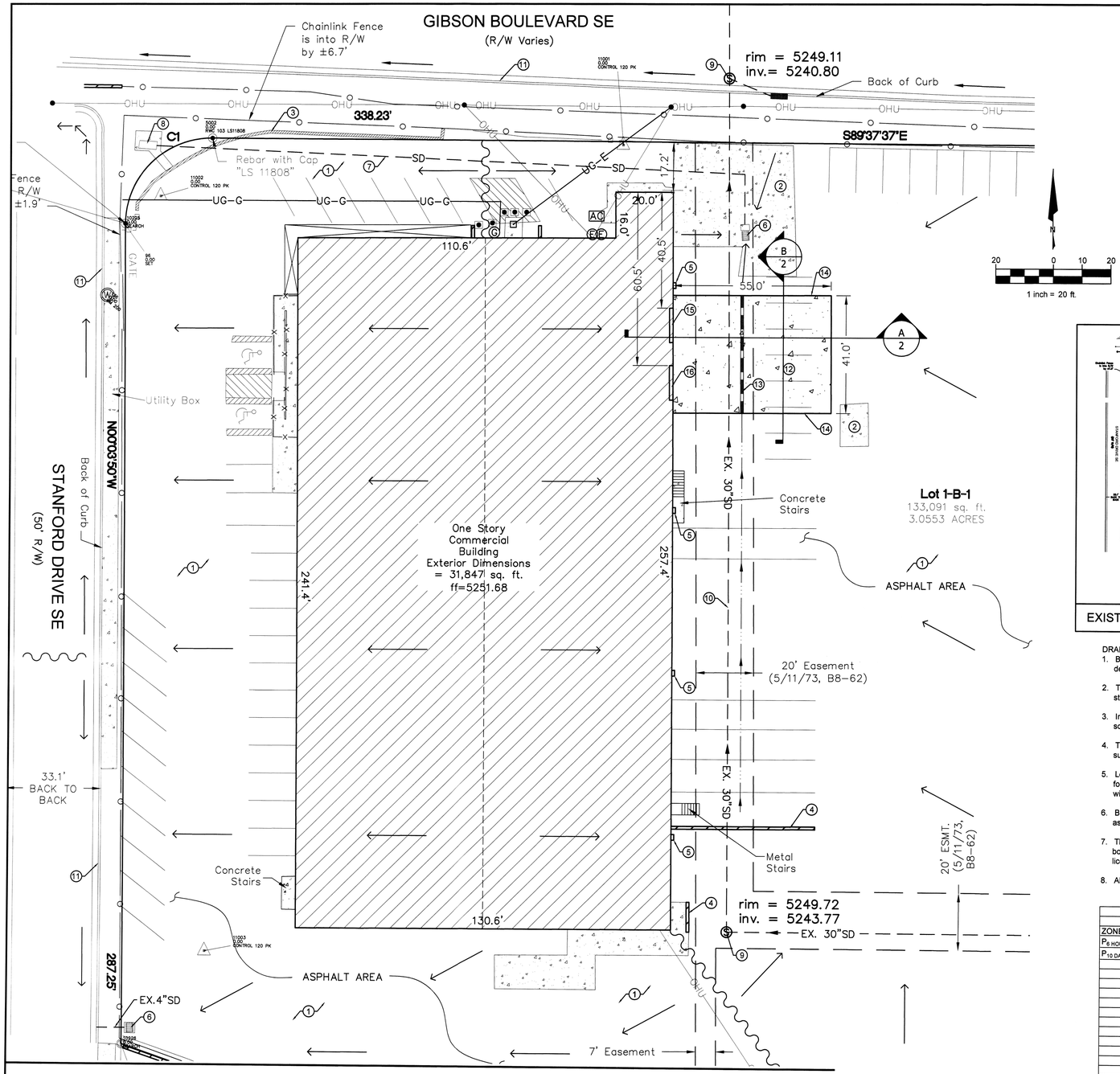
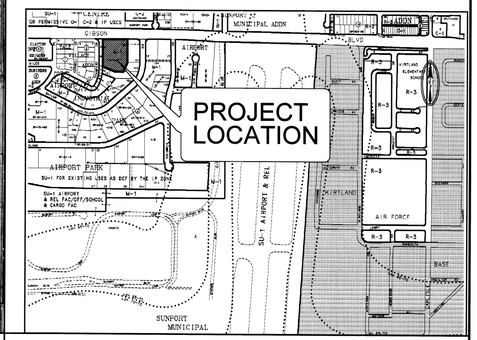
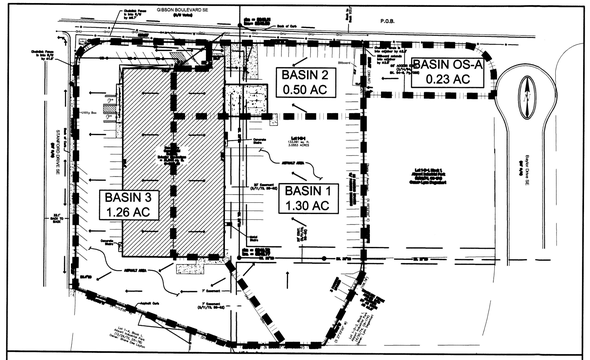


FIRM PANEL 35001C0361G NTS



LOCATION MAP ZAP M-16-Z NTS



EXISTING DRAINAGE BASIN MAP NTS

DRAINAGE PLAN NOTES

1. BLI recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
2. This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
3. Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
4. This Plan is prepared to establish on-site drainage and grading criteria only. BLI assumes no responsibility for subsurface analysis, foundation/structural design, or utility design.
5. Local codes may require all footings to be placed in natural undisturbed soil. If the Contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes BLI to prepare the Certification, we must be notified PRIOR to placement of the fill.
6. BLI recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
7. The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.
8. All spot elevations are finished grade or top of pavement, unless noted otherwise.

PROJECT HYDROLOGY
AHYMO

ZONE:	2
$P_{6\ HOUR}$	2.35"
$P_{10\ DAY}$	3.95"

REDBURN TIRE

UNDEVELOPED:

BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
1	1.30	0.00	0.00	0.00	1.30	2.12	6.0	0.230
2	0.50	0.00	0.00	0.00	0.50	2.12	2.4	0.088
3	1.26	0.00	0.00	0.00	1.26	2.12	5.9	0.223
OS-A	0.23	0.00	0.00	0.00	0.23	2.12	1.1	0.041
SITE	3.06	0.00	0.00	0.00	3.06	2.12	14.4	0.541

DEVELOPED (PROPOSED):

BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
1	1.30	0.00	0.00	0.00	1.30	2.12	6.0	0.230
2	0.50	0.00	0.00	0.00	0.50	2.12	2.4	0.088
3	1.26	0.00	0.00	0.00	1.26	2.12	5.9	0.223
OS-A	0.23	0.00	0.00	0.00	0.23	2.12	1.1	0.041
SITE	3.06	0.00	0.00	0.00	3.06	2.12	14.4	0.541

PROJECT DATA

PROPERTY ADDRESS
2645 BAYLOR DRIVE S.E.
ALBUQUERQUE, NEW MEXICO 87106

LEGAL DESCRIPTION
LOT NUMBER 1-B-1
AIRPORT INDUSTRIAL PARK
ALBUQUERQUE, NEW MEXICO

PROJECT BENCHMARK
ACS ALUMINUM CAP "19-L16"
ELEV = 5297.506

MAPPING
CARTESIAN SURVEYS, INC.
OCTOBER, 2008
SUPPLEMENTAL MAPPING BY
BRASHER & LORENZ, INC.

GRADING AND DRAINAGE PLAN

SCOPE

Pursuant to the City of Albuquerque Drainage Ordinance and the Development Process Manual, Volume 2, Section 22.2, the Grading and Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on the project site. The project consists of the construction of a vehicle access ramp into the existing Redburn Tire Building, located at 2645 Baylor Drive SE, in Albuquerque, New Mexico.

EXISTING CONDITIONS

Presently the 3.06 acre site is fully developed and contains an existing 31,847-sf building, with associated site improvements.

The site is located on Stanford Drive SE, immediately south of Gibson Boulevard SE. The site is bounded on the east and south by developed commercial, office and industrial properties, on the west by residential properties and on the north by Gibson Boulevard SE.

Existing on-site runoff is divided into 4 drainage basins. Basins 1, 2 and OS-A all drain to an existing storm inlet located near the northeast corner of the building. The inlet drains by a small diameter storm drain to a sump located at the northwest corner of the property. Basin 3 drains into Stanford Drive mostly by sheet flow; however, a storm inlet exists near the southwest property corner to convey flows to Stanford by a 4-inch pipe.

As shown by the attached FIRM, the site lies within the 500-year Flood Zone (Zone X).

PROPOSED CONDITIONS

The project consists of the construction of a vehicle access ramp into the existing Redburn Tire Building. No other site improvements are proposed. The ramp will be constructed near the northeast building corner, just south of the existing storm inlet. A 12-inch culvert will be provided to convey surface flows from the existing drainage swale through the ramp to the storm inlet. Since the ramp is to be constructed over existing asphalt pavement no additional drainage flows will generated as a result of this project.

Fire protection, domestic water, and sanitary sewer services are presently obtained from the Albuquerque Bernalillo County Water Utility Authority water and sewer system.

CALCULATIONS

The calculations shown hereon define the 100 year/6 hour design storm falling within the project area under existing and developed conditions. The hydrology is per "Section 22.2, Part A, Development Process Manual, Vol. 2", dated June, 1997.

LEGEND

ITEM	EXISTING	PROPOSED
OVERHEAD ELEC	—E—E—	
PROPOSED SPOT ELEVATION	× 75.5	01.5 ◆
POWER POLE (GUYED)	C PP	
CONTOUR W/ ELEVATION	4992	92
BLOCK WALL		
DIRECTION OF FLOW		
DRAINAGE SWALE		
BASIN BOUNDARY		

KEYED NOTES

1. EXISTING ASPHALT PAVEMENT.
2. EXISTING CONCRETE SLAB.
3. EXISTING RAILROAD TIE RETAINING WALL.
4. EXISTING CONCRETE RETAINING WALL.
5. EXISTING DOWNSPOUTS.
6. EXISTING AREA DRAIN.
7. EXISTING PRIVATE STORM DRAIN.
8. EXISTING DRAINAGE SUMP.
9. EXISTING STORM MANHOLE.
10. EXISTING PUBLIC STORM DRAIN.
11. EXISTING STANDARD CURB AND GUTTER.
12. REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT. CONSTRUCT NEW ACCESS RAMP PER DETAIL (A/1)
13. INSTALL NEW 12" CMP CULVERT. LOCATE AT EXISTING SWALE.
14. INSTALL STEEL SAFETY RAIL EACH SIDE OF RAMP.
15. EXISTING OVERHEAD DOOR.
16. NEW OVERHEAD DOOR.

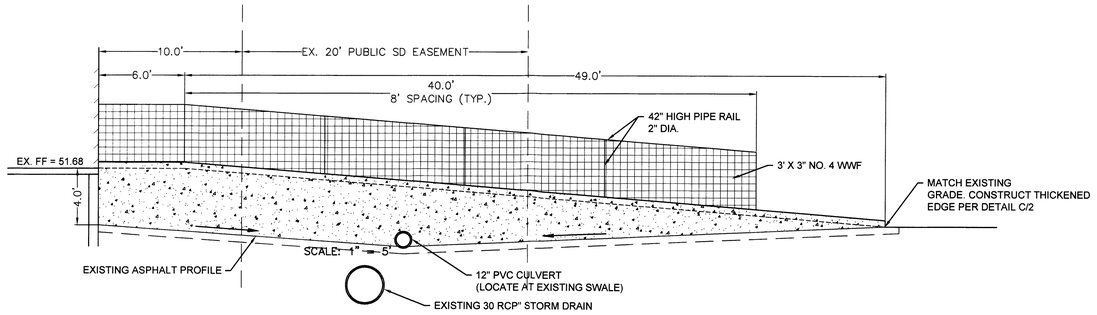
RECEIVED
OCT 30 2009
HYDROLOGY SECTION

DENNIS A LORENZ NEW MEXICO 9647 REGISTERED PROFESSIONAL ENGINEER 10-29-09

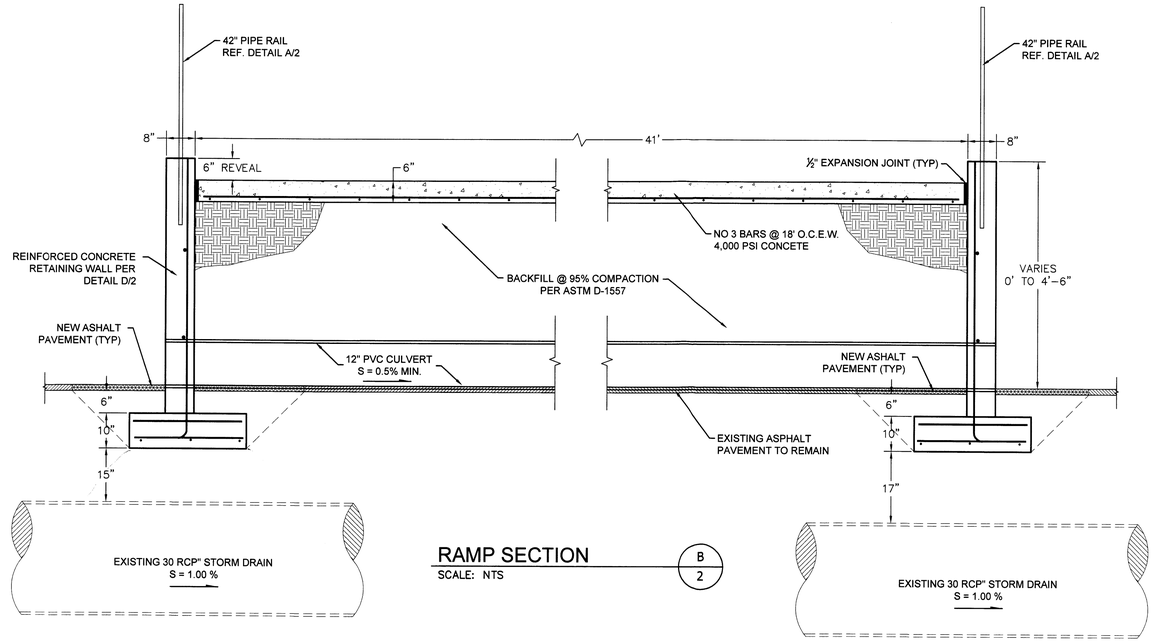
BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 1300
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

REDBURN TIRE
GRADING AND DRAINAGE PLAN

DESIGN	DAL	DRAWN	MVH	CHECKED	DAL	SHEET
SCALE	1"=20'	BLI JOB	09550	DATE	October 30, 2009	1 of 2

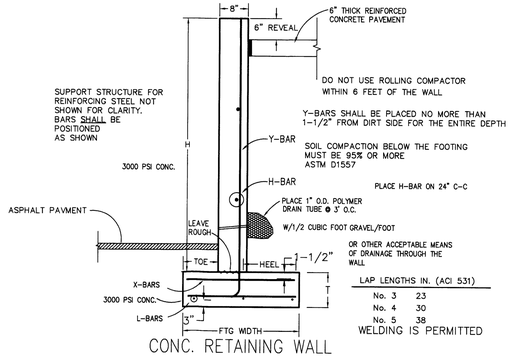


ACCESS RAMP SECTION — A/2



RAMP SECTION — B/2

SCALE: NTS



LAP LENGTHS IN. (ACI 531)

No. 3	23
No. 4	30
No. 5	38

WELDING IS PERMITTED

CONC. RETAINING WALL

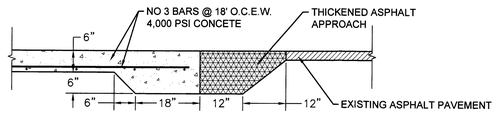
N.T.S.
60 ksi Steel

HEIGHT (H)	FTG. THICK. (T)	TOE (in.)	HEEL	Y-Bar	X-Bar	L-Bar	H-Bar	WALL THICKNESS	FIBER-LBS/CY*	FTG WIDTH
2'	10"	3"	0'-3"	#3@48"	#3@48"	2-#4		8"	3	1'-2"
3'	10"	3"	0'-9"	#3@37"	#3@37"	2-#4,	#3@2'	8"	3.5	1'-8"
4'	10"	3"	1'-2"	#4@33"	#3@33"	2-#5	#3@2'	8"	4	2'-1"
5'	10"	3"	1'-6"	#4@19"	#3@19"	2-#5		8"	4	2'-6"

* SUBSTITUTE STRUCTURAL FIBER FOR REBAR

POURED CONRETE RETAINING WALL SECTION — D/2

SCALE: NTS



THICKENED EDGE SECTION — C/2

SCALE: NTS

DENNIS A. LORENZ
NEW MEXICO
9647
REGISTERED PROFESSIONAL ENGINEER
10.30.09

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 1300
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

REDBURN TIRE
CONSTRUCTION DETAILS

DESIGN	DAL	DRAWN	MVH	CHECKED	DAL	SHEET	2 of 2
SCALE	1"=20'	BLI JOB	09550	DATE	October 30, 2009		