



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 24, 1995

Guy C. Jackson
B.P.L.W. Architects & Engineers, Inc.
2400 Louisiana Blvd. AFC #5 Suite 400
Albuquerque, NM 87110

RE: ENGINEER CERTIFICATION FOR WESTERN AUTO ELECTRIC (H19-D60)
ENGINEER'S CERTIFICATION STATEMENT DATED 1/17/95.

Dear Mr. Jackson:

Based on the information provided on your January 18, 1995
submittal, Engineer Certification for the above referenced site
is acceptable.

If I can be of further assistance, please feel free to contact me
at 768-2667.

Sincerely,

Bernie J. Montoya
Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE Western Auto Electric

ZONE ATLAS/DRWG. FILE # H-19 / 260

DRB#: _____ EPC # _____ WORK ORDER # _____

LEGAL DESCRIPTION: Lots 13, 14, 15 & 16, Block 1, Sombra Del Monte

CITY ADDRESS: _____

ENGINEERING FIRM: BPLW CONTACT: Guy Jackson

ADDRESS: 2400 Louisiana Blvd. AFC#5, Suite 400 PHONE: _____

OWNER: Bob and Ann Scott CONTACT: Bob Scott

ADDRESS: 2621 Rhode Island NE PHONE: 237-2200

ARCHITECT: --- CONTACT: _____

ADDRESS: --- PHONE: _____

SURVEYOR: Clint Sherril CONTACT: Clint Sherril

ADDRESS: _____ PHONE: 256-7364

CONTRACTOR: --- CONTACT: _____

ADDRESS: --- PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION
- OTHER _____

PRE-DESIGN MEETING:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVALS
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.B. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- OTHER _____ (SPECIFY)

DATE SUBMITTED: January 17, 1995

BY: Guy Jackson

PURPOSE

The purpose of this exhibit is to present the Drainage Plan for building permit approval for the construction of the new Western Auto Electric Building. The plan has been prepared in accordance with the Development Process Manual (DPM) of the City of Albuquerque, including the January, 1993 Section 22.2 DPM update.

SITE LOCATION AND EXISTING CONDITIONS

The subject property is located on lots 13, 14, 15 and 16 in Block Number One of the Sombra del Monte Subdivision. Currently, the 0.74 AC site is mostly undeveloped with a 390 SF structure, a trailer and three small concrete pads that occupy the southern portion of the site. There are not any improvements on the northern portion of the site.

Currently, flows generated from the site flow from northeast to southwest over an average grade of 1.5% which drain onto the adjacent lots 9 to 12 to the west. The flows continue onto Pennsylvania Street and enter the existing storm system at the northeast corner of the Manual Boulevard and Pennsylvania Street intersection. No off-site flows enter the project site.

DEVELOPED CONDITIONS

The Drainage Plan shows:

1. Drainage basin boundaries with developed flow rates.
2. Existing drainage facilities.
3. General flow direction arrows.
4. Proposed improvements with specific land treatment descriptions.
5. Existing and proposed grades indicated by spot elevations and contours at 0'-6" intervals.
6. The limit and type of the proposed improvements.

As shown by this plan, the proposed improvements consist of the construction of a 5000 SF building and adjacent parking lot in the northern portion of the site with the relocation of an existing driveway. The southern portion of the site, however, will remain in its existing condition with no new improvements with this plan.

The run-off generated by the two on-site developed basins will drain directly into the adjacent streets (Phoenix Avenue and Rhode Island Street, NE) via sidewalk culverts. Basin A will discharge 1.0 cfs into Phoenix Avenue (an increase of 23 cfs) and Basin B will discharge 0.9 cfs into Rhode Island Street (also an increase of 23 cfs). The flows that enter Phoenix Avenue will drain west into Pennsylvania Street and then south to the existing inlet and storm system located at the northwest corner of the Manual Boulevard and Pennsylvania Street intersection previously described. The flow that enters Rhode Island Street will drain south to an existing inlet and storm drain on Rhode Island Street, just south of the site which connects to the existing storm system at the Manual Boulevard and Pennsylvania Street intersection.

HYDROLOGIC COMPUTATIONS

The calculations which appear below, analyze both the undeveloped and developed conditions for the 100 year event. The new rational methods described in Chapter 22.2 of the DPM (January 1993 update) was used to determine the peak flows and volumes. The net increase of run-off for the developed portion of the project site is $Q = 2.82 - 1.44 = 1.38$ cfs. The net increase of volume for the developed portion of the project site is $1961 = 1274$ cf.

PRECIPITATION ZONE	PEAK DISCHARGE cfs/acre	EXCESS PRECIPITATION
100yr 6hr Existing flows		
A = 1.87	B = 2.40	A = 0.86
C = 3.45	D = 1.29	C = 0.92
D = 5.02		D = 2.36

BASIN A (UNDEVELOPED)

LAND TREATMENT	PERCENTAGE TREATMENT	AREA (acres)	DISCHARGE (cfs)	VOLUME (acre-ft)	VOLUME (cf)
A	0	0	0	0	0
B	0	0	0	0	0
C	100	0.223	0.769	0.024	1044.242
D	0	0	0	0	0
TOTAL	0	0	0.769	0.024	1044.242

BASIN B (UNDEVELOPED)

LAND TREATMENT	PERCENTAGE TREATMENT	AREA (acres)	DISCHARGE (cfs)	VOLUME (acre-ft)	VOLUME (cf)
A	0	0	0	0	0
B	0	0	0	0	0
C	100	0.196	0.676	0.021	917.809
D	0	0	0	0	0
TOTAL	0	0	0.676	0.021	917.809

BASIN A (DEVELOPED)

LAND TREATMENT	PERCENTAGE TREATMENT	AREA (acres)	DISCHARGE (cfs)	VOLUME (acre-ft)	VOLUME (cf)
A	0	0	0	0	0
B	19	0.042	0.110	0.003	141.499
C	0	0	0	0	0
D	81	0.181	0.907	0.036	1547.421
TOTAL	0	0	1.017	0.039	1688.920

BASIN B (DEVELOPED)

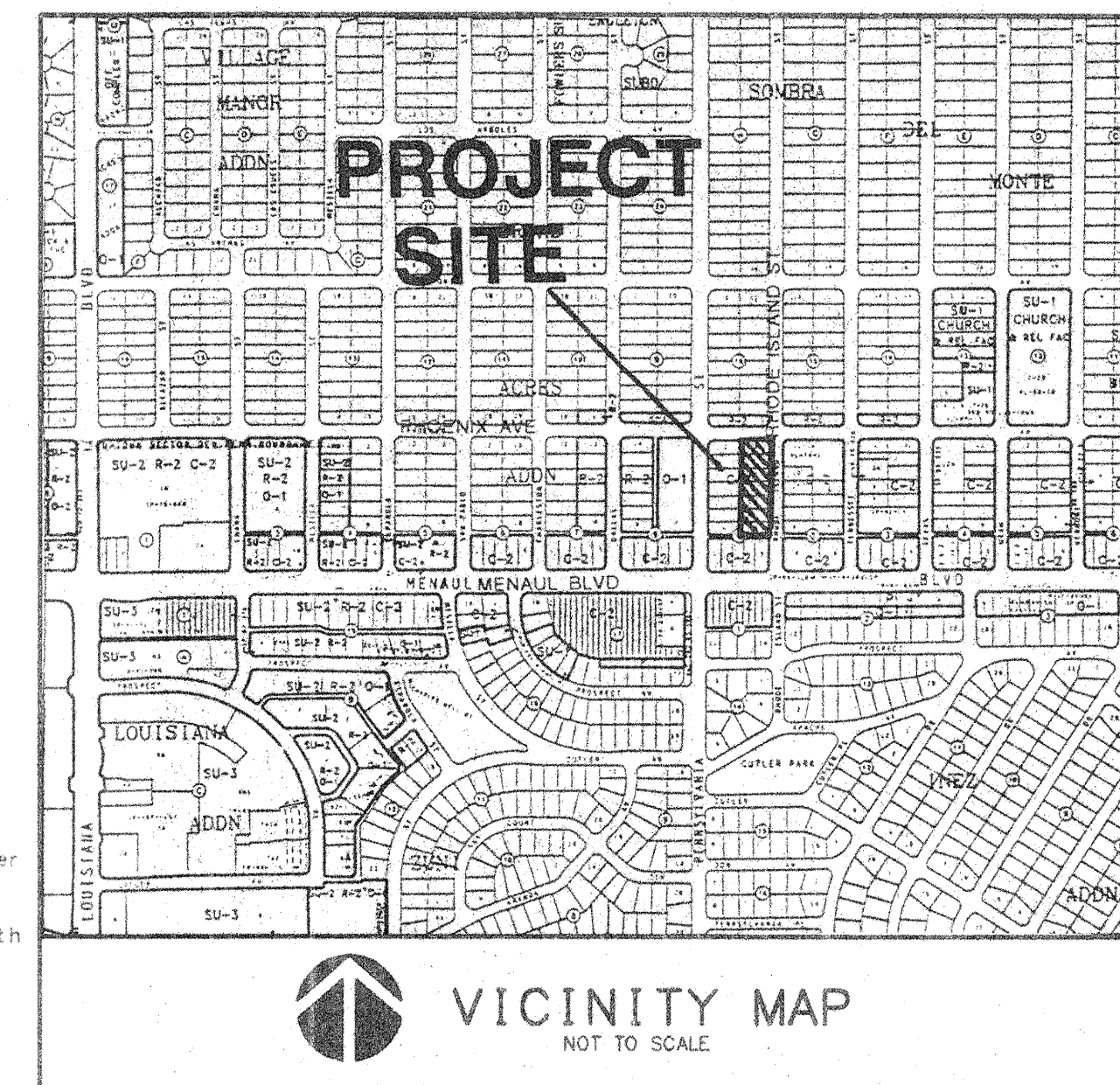
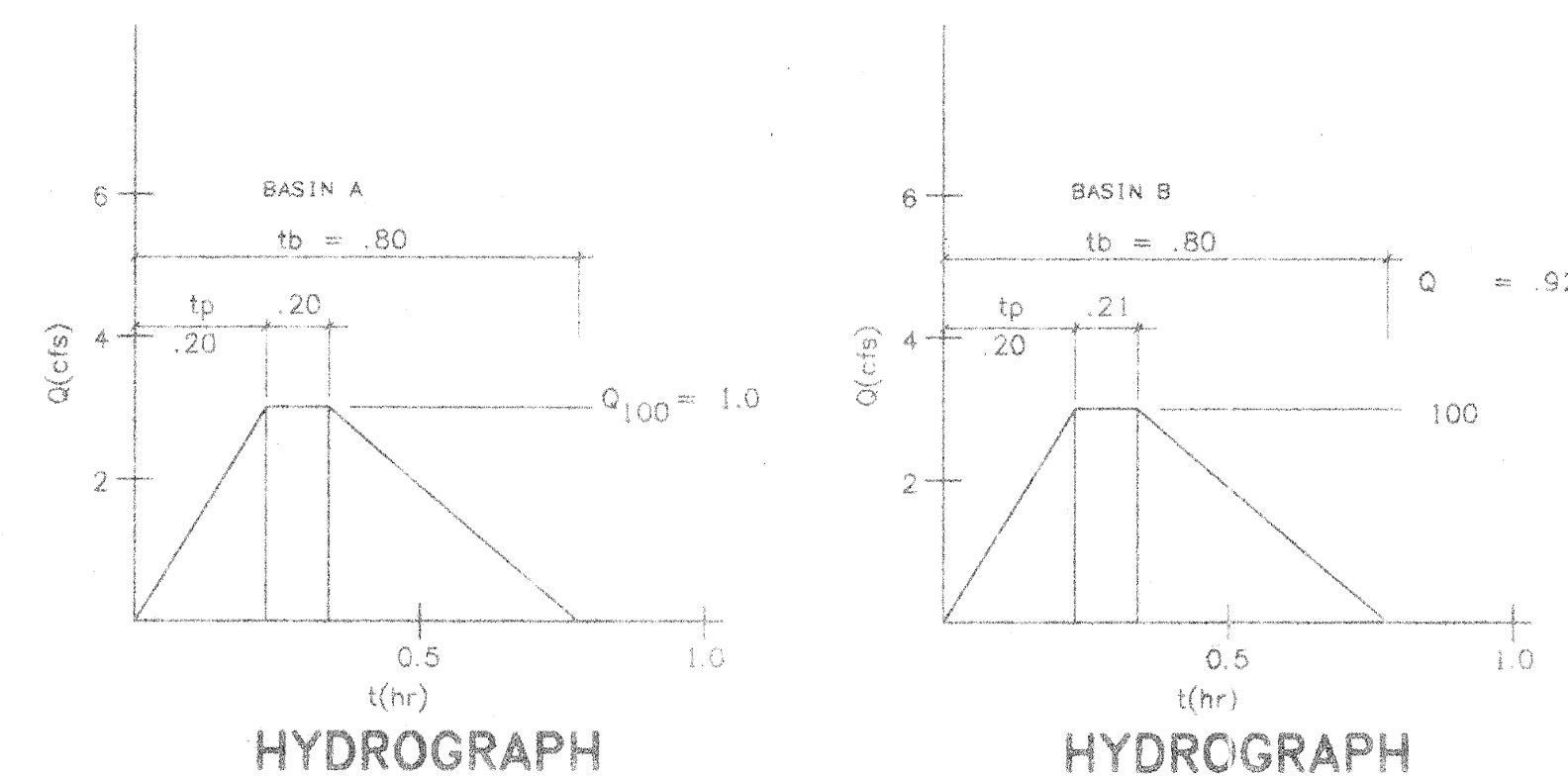
LAND TREATMENT	PERCENTAGE TREATMENT	AREA (acres)	DISCHARGE (cfs)	VOLUME (acre-ft)	VOLUME (cf)
A	0	0	0	0	0
B	13	0.025	0.066	0.002	85.093
C	0	0	0	0	0
D	87	0.171	0.855	0.034	1460.811
TOTAL	0	0	0.922	0.035	1545.904

HYDROGRAPH BASIN A

At = 0.223 At = 0.20
Ab = 0.042 Qp = 1.00
Ad = 0.180
Eh = 0.920 table A-8
Ed = 2.360 table A-8
Ew = 0.078
tb = 0.801
tp = 0.200
Qp at .25 (Ad/N) = 0.20

HYDROGRAPH BASIN B

At = 0.196 At = 0.20
Ab = 0.025 Qp = 0.92
Ad = 0.111
Eh = 0.920 table A-8
Ed = 2.360 table A-8
Ew = 0.076
tb = 0.802
tp = 0.200
Qp at .25 (Ad/N) = 0.21



CITY OF ALBUQUERQUE
DRAINAGE FACILITIES WITHIN CITY ROW

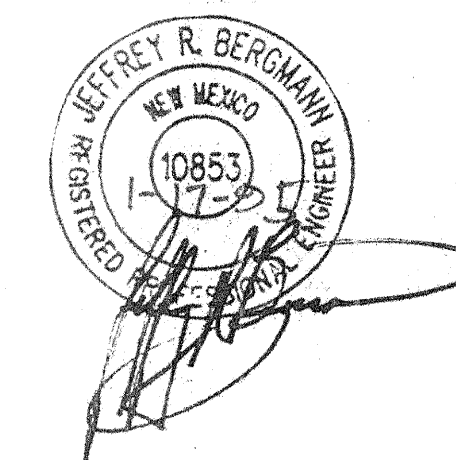
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH AMENDMENT #4.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 269-1990, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

APPROVALS	NAME	DATE	TITLE
HYDROLOGY			WESTERN AUTO ELECTRIC
INSPECTOR			
A.C.E./FIELD			

ENGINEER'S CERTIFICATION
FOR
WESTERN AUTO ELECTRIC

I, Jeffrey Bergmann, registered New Mexico Engineer, Number# 10853, do hereby certify that to the best of my knowledge and belief, that the as-built information provided by Clint Sherill & Associates reflects that the site grading was constructed in compliance with the approved Grading Plan.

Jeffrey Bergmann # 10853



BPLW
Architects & Engineers, Inc.
2400 Louisiana Blvd. NE
AFC #5 Suite 400
Albuquerque, New Mexico 87110
(505) 881-2759
63 East Main Street
Suite 602
Mesa, Arizona 85201
(602) 827-2759

Designing to Shape the Future

GENERAL NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB AT FLOWLINE UNLESS OTHERWISE SPECIFIED.
3. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
4. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. REMOVAL OF THE EXISTING CURB AND GUTTER OR VALLEY GUTTER SHALL BE AS PER COA STD DWG. 2415 (SAW CUT ONLY).

BENCH MARK:

A.C.S. MONUMENT
"12-H-19"
X=407481.95
Y=1495050.42
G-G: 0.99965438
ELEV. 5341.508
ΔO= -001'04"

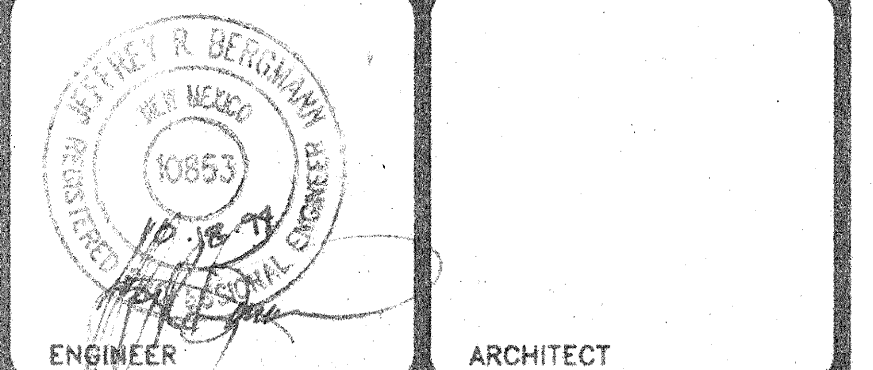
TBM:

EXISTING #4 REBAR LOCATED 170' SOUTH OF INTERSECTION OF PHOENIX AVE. AND RHODE ISLAND STREET.
ELEV = 5352.54

LEGEND:

- NEW SPOT ELEVATIONS
- DIRECTION OF FLOW
- WATER BLOCK
- ROOF DRAIN
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TOP BACK OF CURB
- TOP OF CURB
- TOP BACK OF SIDEWALK
- FLOW LINE
- FINISH FLOOR
- INVERT
- AS-BUILT ELEVATIONS

REV.	DESCRIPTION	DATE



WESTERN AUTO ELECTRIC

ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

PROJECT NO. DATE
9-29-94

GRADING PLAN

DRAWING NO.
CD.1
SHEET OF 1

EROSION CONTROL BERM

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF THE PROJECT. THE BERM WILL BE PLACED ALONG PROPERTY LINES.

ASPHALT RUNDOWN

NOT TO SCALE