

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

November 1, 2022

Ryan Morrissey, P.E.
Burkhardt Engineering
28 North Cherry St.
Germantown, OH, 45327

RE: Champion Xpress Car Wash
7509 Menaul Blvd. NE
Engineer's Certification Date: 10/21/22
Engineer's Stamp Date: 07/20/21
Hydrology File: H19D091

Dear Mr. Morrissey:

PO Box 1293

Based on the Certification received 10/24/2022 and site visit on 10/28/22, this certification is approved in support of ROFG/SIA by Hydrology.

Albuquerque

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

NM 87103

www.cabq.gov

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

Project Title: Xpress Car Wash **Building Permit #:** 2021-17219 **Hydrology File #:** H19D091
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: * 003 008BROAD ACRES and * 004 008BROAD ARCES XLT 5X6
City Address: 7509 Menaul NE Albuquerque, NM 87110 and 7521 Menaul NE Albuquerque, NM 87110

Applicant: Ryan Morrissey **Contact:** _____
Address: 28 North Cherry Street Germantown, OH 45327
Phone#: 937-694-3142 **Fax#:** _____ **E-mail:** rmorrissey@burkhardtinc.com

Other Contact: Modulus Architects **Contact:** Regina Okoye
Address: 100 Sun Ave. NE, suite 600, Albuquerque, NM 87109
Phone#: 505-267-7686 **Fax#:** _____ **E-mail:** rokoye@modulusarchitects.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE ☒ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes ☒ No

DEPARTMENT: _____ TRAFFIC/TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☒ ENGINEER/ARCHITECT CERTIFICATION
☐ PAD CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
☐ ELEVATION CERTIFICATE
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ OTHER (SPECIFY) _____
☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☒ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
☐ FLOODPLAIN DEVELOPMENT PERMIT
☐ OTHER (SPECIFY) _____

DATE SUBMITTED: 10/24/2022 **By:** Ryan Morrissey

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 08/13/21
BY: *Renee Brummett*
HydroTeam # H19D091

THE APPROVAL OF THESE PLANS SHALL NOT BE
CONSIDERED TO BE A GUARANTEE OF ANY CITY
ENGINEER OR THE CITY OF ALBUQUERQUE. THE CITY
ENGINEER OR THE CITY OF ALBUQUERQUE DOES NOT
WARRANT OR GUARANTEE THE ACCURACY OF THE
INFORMATION OR DATA OF CONSULTANTS IN PLANS.
SPECIFICATIONS AND CONDITIONS SHALL BE APPROVED
BY THE CITY ENGINEER OR THE CITY OF ALBUQUERQUE.
AUTOMATICALLY.

DRAINAGE CERTIFICATION

I, RYAN JOSEPH MORRISSEY, NMP# 25323, OF THE FIRM BURKHARDT ENGINEERING COMPANY, HEREBY
CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH
AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 7/20/2021. THE RECORD
INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY STEVEN JOHN
SANDOVAL, NMP# 12351, OF THE FIRM CONSTRUCTION SURVEYING SERVICES.

I FURTHER CERTIFY THAT I HAVE PERSONALLY REVIEWED PHOTOGRAPHY AND HAVE DETERMINED BY
VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE
CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY
TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT.

THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF
ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



PERMITTING CONTACT INFORMATION:

PLANNING / ZONING / BUILDING
City of Albuquerque - Planning Department
Contact: David Campbell
Telephone: 505.924.3860
Email: dscampbell@cabq.gov

UTILITY CONTACT INFORMATION:

SANITARY SEWER / WATER
Albuquerque Bernalillo County Water Utility Authority
Contact: David Gutierrez
Telephone: 505.289.3307
Email: dggutierrez@abwcwa.org

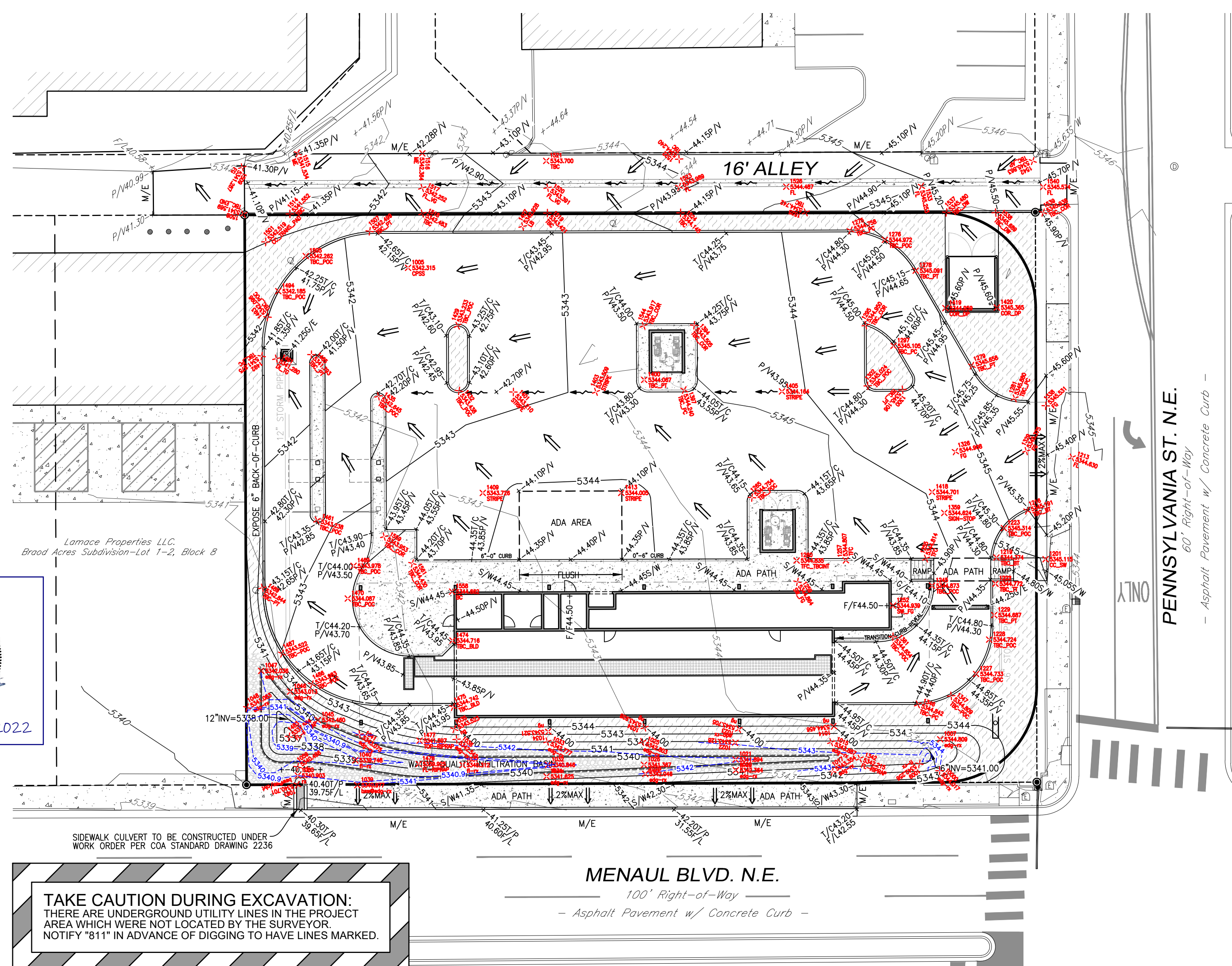
GAS
New Mexico Gas Company
Contact: Customer Service
Telephone: 505.697.3335

ELECTRIC
PNM (Public Service Company of New Mexico)
Contact: Michael Moyer
Telephone: 505.241.3697
Email: mmoyer@pnm.com

TELECOM
CenturyLink
Contact: Customer Service
Telephone: 866.465.2313

VERTICAL & HORIZONTAL CONTROL:
Reference - ALTA / NSPS Land Survey of the subject property
prepared by Steve Sandoval Professional Land Surveyor - New
Mexico Registration No. 12351 (NAD 83, NAVD88)

Rotated to City of Albuquerque Survey Monuments 15, H18 and
11, H19 and pinned to a one-point opus static GPS solution
performed on the subject property at North Latitude 35°06'33.96794"
West Longitude 106°33'37.30036" N1495266.12 E1547596.14 SPC
NM C Zone 3002 Orthometric Height of 5342.81 NAVD 1988.



TAKE CAUTION DURING EXCAVATION:
THERE ARE UNDERGROUND UTILITY LINES IN THE PROJECT
AREA WHICH WERE NOT LOCATED BY THE SURVEYOR.
NOTIFY "811" IN ADVANCE OF DIGGING TO HAVE LINES MARKED.

National Flood Hazard Layer FIRMette



Legend

SEE FIRM REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone X, Zone 9, Zone 10, Zone 11, Zone 12, Zone 13, Zone 14, Zone 15, Zone 16, Zone 17, Zone 18, Zone 19, Zone 20, Zone 21, Zone 22, Zone 23, Zone 24, Zone 25, Zone 26, Zone 27, Zone 28, Zone 29, Zone 30, Zone 31, Zone 32, Zone 33, Zone 34, Zone 35, Zone 36, Zone 37, Zone 38, Zone 39, Zone 40, Zone 41, Zone 42, Zone 43, Zone 44, Zone 45, Zone 46, Zone 47, Zone 48, Zone 49, Zone 50, Zone 51, Zone 52, Zone 53, Zone 54, Zone 55, Zone 56, Zone 57, Zone 58, Zone 59, Zone 60, Zone 61, Zone 62, Zone 63, Zone 64, Zone 65, Zone 66, Zone 67, Zone 68, Zone 69, Zone 70, Zone 71, Zone 72, Zone 73, Zone 74, Zone 75, Zone 76, Zone 77, Zone 78, Zone 79, Zone 80, Zone 81, Zone 82, Zone 83, Zone 84, Zone 85, Zone 86, Zone 87, Zone 88, Zone 89, Zone 90, Zone 91, Zone 92, Zone 93, Zone 94, Zone 95, Zone 96, Zone 97, Zone 98, Zone 99, Zone 100, Zone 101, Zone 102, Zone 103, Zone 104, Zone 105, Zone 106, Zone 107, Zone 108, Zone 109, Zone 110, Zone 111, Zone 112, Zone 113, Zone 114, Zone 115, Zone 116, Zone 117, Zone 118, Zone 119, Zone 120, Zone 121, Zone 122, Zone 123, Zone 124, Zone 125, Zone 126, Zone 127, Zone 128, Zone 129, Zone 130, Zone 131, Zone 132, Zone 133, Zone 134, Zone 135, Zone 136, Zone 137, Zone 138, Zone 139, Zone 140, Zone 141, Zone 142, Zone 143, Zone 144, Zone 145, Zone 146, Zone 147, Zone 148, Zone 149, Zone 150, Zone 151, Zone 152, Zone 153, Zone 154, Zone 155, Zone 156, Zone 157, Zone 158, Zone 159, Zone 160, Zone 161, Zone 162, Zone 163, Zone 164, Zone 165, Zone 166, Zone 167, Zone 168, Zone 169, Zone 170, Zone 171, Zone 172, Zone 173, Zone 174, Zone 175, Zone 176, Zone 177, Zone 178, Zone 179, Zone 180, Zone 181, Zone 182, Zone 183, Zone 184, Zone 185, Zone 186, Zone 187, Zone 188, Zone 189, Zone 190, Zone 191, Zone 192, Zone 193, Zone 194, Zone 195, Zone 196, Zone 197, Zone 198, Zone 199, Zone 200, Zone 201, Zone 202, Zone 203, Zone 204, Zone 205, Zone 206, Zone 207, Zone 208, Zone 209, Zone 210, Zone 211, Zone 212, Zone 213, Zone 214, Zone 215, Zone 216, Zone 217, Zone 218, Zone 219, Zone 220, Zone 221, Zone 222, Zone 223, Zone 224, Zone 225, Zone 226, Zone 227, Zone 228, Zone 229, Zone 230, Zone 231, Zone 232, Zone 233, Zone 234, Zone 235, Zone 236, Zone 237, Zone 238, Zone 239, Zone 240, Zone 241, Zone 242, Zone 243, Zone 244, Zone 245, Zone 246, Zone 247, Zone 248, Zone 249, Zone 250, Zone 251, Zone 252, Zone 253, Zone 254, Zone 255, Zone 256, Zone 257, Zone 258, Zone 259, Zone 260, Zone 261, Zone 262, Zone 263, Zone 264, Zone 265, Zone 266, Zone 267, Zone 268, Zone 269, Zone 270, Zone 271, Zone 272, Zone 273, Zone 274, Zone 275, Zone 276, Zone 277, Zone 278, Zone 279, Zone 280, Zone 281, Zone 282, Zone 283, Zone 284, Zone 285, Zone 286, Zone 287, Zone 288, Zone 289, Zone 290, Zone 291, Zone 292, Zone 293, Zone 294, Zone 295, Zone 296, Zone 297, Zone 298, Zone 299, Zone 300, Zone 301, Zone 302, Zone 303, Zone 304, Zone 305, Zone 306, Zone 307, Zone 308, Zone 309, Zone 310, Zone 311, Zone 312, Zone 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Zone 1194, Zone 1195, Zone 1196, Zone 1197, Zone 1198, Zone 1199, Zone 1200, Zone 1201, Zone 1202, Zone 1203, Zone 1204, Zone 1205, Zone 1206, Zone 1207, Zone 1208, Zone 1209, Zone 1210, Zone 1211, Zone 1212, Zone 1213, Zone 1214, Zone 1215, Zone 1216, Zone 1217, Zone 1218, Zone 1219, Zone 1220, Zone 1221, Zone 1222, Zone 1223, Zone 1224, Zone 1225, Zone 1226, Zone 1227, Zone 1228, Zone 1229, Zone 1230, Zone 1231, Zone 1232, Zone 1233, Zone 1234, Zone 1235, Zone 1236, Zone 1237, Zone 1238, Zone 1239, Zone 1240, Zone 1241, Zone 1242, Zone 1243, Zone 1244, Zone 1245, Zone 1246, Zone 1247, Zone 1248, Zone 1249, Zone 1250, Zone 1251, Zone 1252, Zone 1253, Zone 1254, Zone 1255, Zone 1256, Zone 1257, Zone 1258, Zone 1259, Zone 1260, Zone 1261, Zone 1262, Zone 1263, Zone 1264, Zone 1265, Zone 1266, Zone 1267, Zone 1268, Zone 1269, Zone 1270, Zone 1271, Zone 1272, Zone 1273, Zone 1274, Zone 1275, Zone 1276, Zone 1277, Zone 1278, Zone 1279, Zone 1280, Zone 1281, Zone 1282, Zone 1283, Zone 1284, 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Zone 1649, Zone 1650, Zone 1651, Zone 1652, Zone 1653, Zone 1654, Zone 1655, Zone 1656, Zone 1657, Zone 1658, Zone 1659, Zone 1660, Zone 1661, Zone 1662,

Private Drainage Facilities within City Right-of-Way
Notice to Contractor
(Special Order 19 ~ "SO-19")

1. Build sidewalk culvert per COA STD DWG 2236.
2. Contact Storm Drain Maintenance at (505) 857-8033 to schedule a meeting prior to forming.
3. An excavation permit will be required before beginning any work within City Right-Of-Way.
4. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
5. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
6. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
7. Backfill compaction shall be according to traffic/street use.
8. Maintenance of the facility shall be the responsibility of the owner of the property being served.
9. Work on arterial streets may be required on a 24-hour basis.
10. Contractor must contact Storm Drain Maintenance at (505) 857-8033 to schedule a construction inspection. For excavating and barricading inspections, contact Construction Coordination at (505) 924-3416.

STORM WATER MANAGEMENT NOTES:

Existing Lot Coverage - 87% impervious / 13% landscaping & gravel
Proposed Lot Coverage - 83% impervious / 17% landscaping

Net Decrease in Storm Water Runoff due to Development
No Storm Water Detention Required

Methodology:

Albuquerque Development Process Manual

Chapter 22, Section 2, Part A;

"A simplified procedure for projects with sub-basins smaller than 40 acres has been developed based on initial abstraction / uniform infiltration precipitation losses and Rational Method procedures."

Storm Water Quality Volume (WQv) = Impervious Area x 0.26 inches

Precipitation Zone:

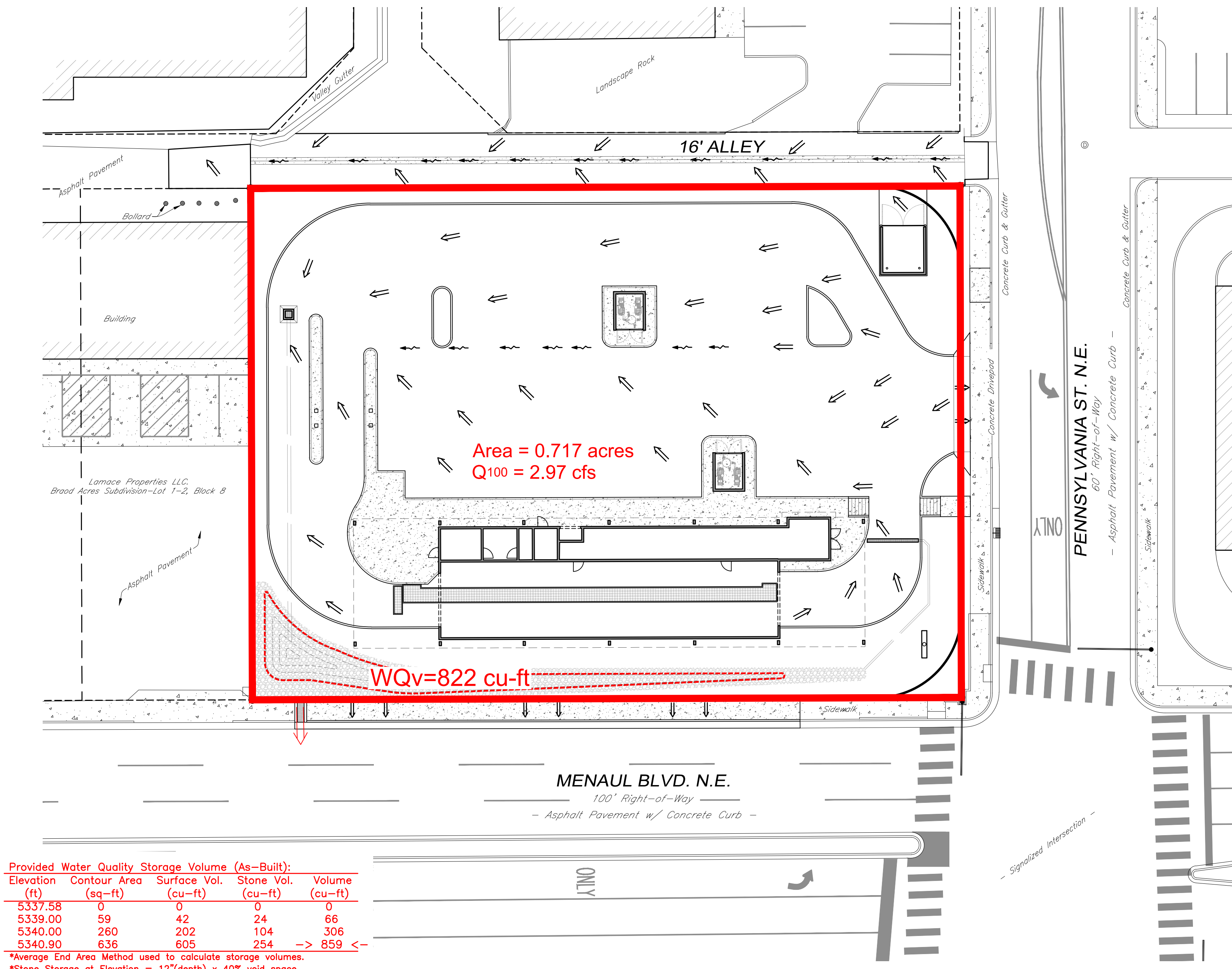
Precipitation Zone 3: "Between the San Mateo and Eubank"

Drainage Summary:

Area = 0.717 acres
Treatment B (Desert Landscaping Area) - 17%
Treatment D (Impervious Area) - 83% = 0.595 acres
100-year peak Discharge Rate = 4.14 cfs/acre (Table A-9)
Q₁₀₀ = 2.97 cfs
WQv = 677 cu-ft (required)

Provided Water Quality Storage Volume:

Elevation (ft)	Contour Area (sq-ft)	Incremental Vol. (cu-ft)	ΣVolume (cu-ft)
5337	8	0	0
5338	46	27	27
5339	250	148	175
5340	791	521	696
5340.15	895	126	822 - overflow to R/W



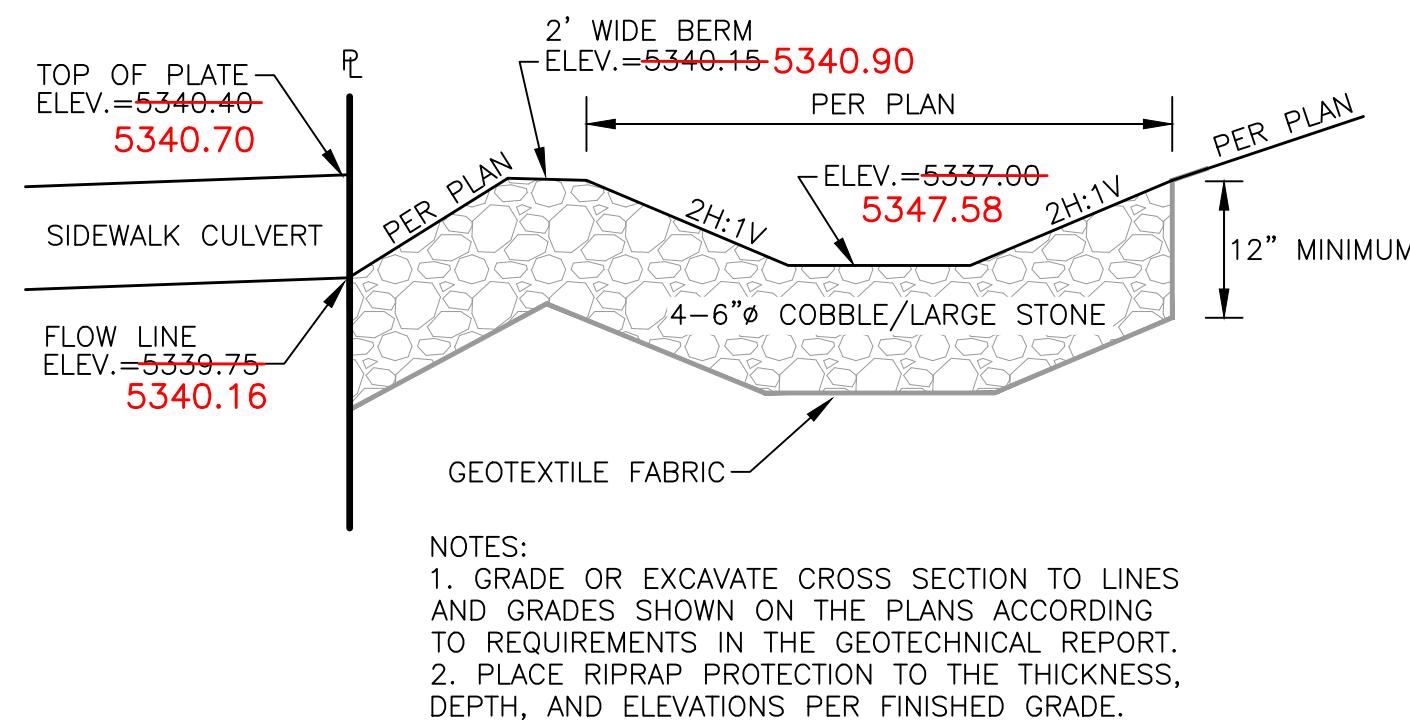
Provided Water Quality Storage Volume (As-Built):				
Elevation (ft)	Contour Area (sq-ft)	Surface Vol. (cu-ft)	Stone Vol. (cu-ft)	Volume (cu-ft)
5337.58	0	0	0	0
5339.00	59	42	24	66
5340.00	260	202	104	306
5340.90	636	605	254	859 <-
*Average End Area Method used to calculate storage volumes.				
*Stone Storage at Elevation = 12" (depth) x 40% void space.				
*Provided Volume exceeds Required Volume.				

*Average End Area Method used to calculate storage volumes.

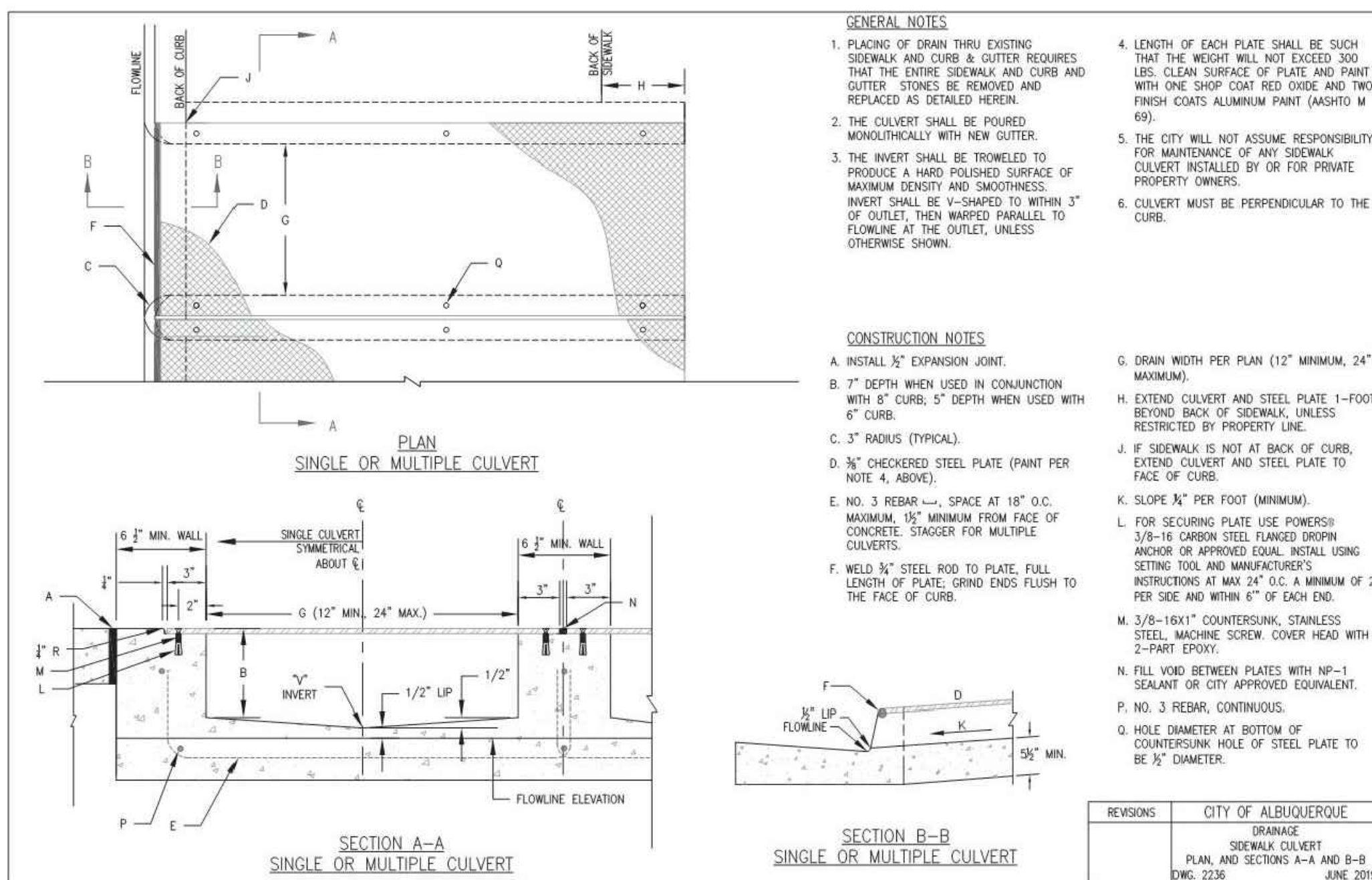
Curb Cut and Sidewalk Culvert Capacity:

Weir Equation: $Q = CxLxH^{3/2}$ where,
Q = discharge (cfs)
C = weir coefficient = 3.33
L = length of weir (ft)
H = head or depth (ft)

For the 24" wide Curb Cuts and Sidewalk Culverts with a max depth of 7";
Maximum Flow = 2.97 cfs (meets 100-year discharge)



WQv AREA SECTION
NOT TO SCALE



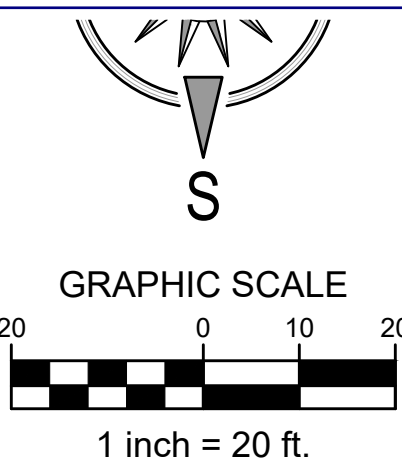
GENERAL GRADING, EARTHWORK & DRAINAGE NOTES

1. All spot elevations indicated in pavement areas are at bottom face of curb and/or finished pavement grade unless noted otherwise. All spot elevations indicated in grass or landscape areas are finished grade unless noted otherwise.
2. The Contractor shall be responsible for the removal and disposal of all vegetation and organic materials from the site that results from clearing & grubbing activities.
3. The Contractor shall be responsible for stripping and removal of all excess topsoil from the site. All topsoil that cannot be used on site shall be removed from the site at the Contractor's expense. The Contractor may dispose of excess topsoil by burying topsoil in landscape areas only at the direction of the Owner or the Owner's Representative.
4. The Contractor will be responsible for all safety requirements and for the protection of all existing and proposed utilities or structures during earthwork procedures.
5. The Contractor shall be responsible for the import of structural fill materials if suitable material is not available on site. The location and testing of suitable material shall be the Contractor's responsibility. The Contractor shall be responsible for the export and disposal of all excess or unsuitable materials.
6. The Contractor shall provide construction dewatering as necessary to complete construction as outlined in plans.
7. The Contractor shall exercise extreme care in establishing all grades and slopes in pavement areas, ramps and sidewalks in the vicinity of handicap parking and access areas and shall comply with Federal, State, and Local Codes.
8. In areas where sheet drainage flows from grass or landscape areas onto paved areas, the finished grade in grass or landscape areas shall be 1/2 inch above the top of curb or above the pavement in areas without curb. In areas where sheet drainage flows from pavement to grass or landscaped areas, the finished grade in grass or landscape areas shall be 1/2 inch below the pavement.
9. The Contractor shall provide positive drainage in all areas and away from all buildings.
10. All pavement shall be laid on a straight, even, and uniform grade with a minimum of 1:100 (1.0%) slope toward the collection points unless otherwise specified on plans. Cut or fill slopes in unpaved areas shall not exceed 3:1 (33.3%) maximum grade unless otherwise noted on plans.
11. ADA accessible areas shall not exceed the following slopes:
Ramps - 1:12 (8.3%) max.
Routes - 1:20 (5.0%) max.
Parking - 1:50 (2.0%) max.
Cross Slopes - 1:50 (2.0%) max.
12. The Contractor shall adjust tops/lids/grates of all cleanouts, manholes, inlets, valves, etc. to match final grade.
13. Following grading of subsoil to subgrade elevations, the Contractor shall provide 4" of topsoil (minimum) in all disturbed areas which are not to be paved. Final grades should be smoothly finished to surrounding areas and ensure positive drainage. Stockpiled topsoil shall be screened prior to respreading and should be free of subsoil, debris, and stones.
14. The Contractor shall be responsible for determining exact quantities of cut and/or fill for estimating and construction and should alert the Engineer of any excessive cut and/or fill, especially if additional cut and/or fill will be required due to poor existing soil conditions discovered during earthwork operations.
15. Refer to the Architectural and Structural Plans for information regarding any perimeter foundation drains.
16. The Contractor shall obtain a copy of the Geotechnical / Soils Report and become thoroughly familiar with site and subgrade information and fully implement recommendations given therein.



DRAINAGE CERTIFICATION

I, RYAN JOSEPH MORRISSEY, NMPE 25323, OF THE FIRM BURKHARDT ENGINEERING COMPANY, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 7/20/2021. THE RECORD INFORMATION PRESENTED HEREIN IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



Date	06/04/21
Item	1
Description	Rev 5 - Revised per DRE Comments.

SITE DEVELOPMENT PLANS FOR
CHAMPION XPRESS CAR WASH
NORTHWEST OF THE INTERSECTION OF
MENAU BOULEVARD N.E. & PENNSYLVANIA STREET N.E.
LOTS 3-6, BLOCK 8, BROAD ACRES SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

BURKHARDT
ENGINEERS & SURVEYORS
28 North Cherry Street | Albuquerque, NM 87101 | Phone: 505-261-9901 | BURKHARDT.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

Design: RJM Proj: 19-106
Draw: JMM Dwg: 19-106.dwg
Check: RJM Tab: C3.1-GP
Scale: 1" = 20'

Date: 02.05.2021

Sheet: GRADING & DRAINAGE NOTES AND DETAILS

Sheet No.: C-3.1

