

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

January 25, 2021

David Soule, P.E.  
Rio Grande Engineering  
P.O. Box 93924  
Albuquerque, NM 87199

**RE: 11200 Towner NE**  
**Grading and Drainage Plan**  
**Engineer's Stamp Date: 01/01/21**  
**Hydrology File: H21D055**

Dear Mr. Soule:

Based upon the information provided in your submittal received 01/04/21, the Grading and Drainage Plan is approved for Building Permit.

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

Also, as a reminder, please provide Drainage Covenant for the stormwater quality ponds per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. There is a recording fee (\$25, payable to Bernalillo County). Please contact Charlotte LaBadie ([clabadie@cabq.gov](mailto:clabadie@cabq.gov), 924-3996). Due to COVID-19, please follow the instructions:

Either email a pdf copy of the executed drainage covenant and the exhibit to [clabadie@cabq.gov](mailto:clabadie@cabq.gov) or either mail or drop off the originals. Please mail the \$25.00 recording fee check made payable to Bernalillo County to:

Planning Dept./DRC  
Attn: Charlotte LaBadie  
600 2nd St. NW, Ste. 400  
ABQ, NM, 87102

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If you drop off the originals, there is a drop box outside the building labeled DRC. Once approved and recorded, Charlotte will email you a copy.

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

*Renée C. Brissette*

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

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** 11200 TOWNER NE **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** LOT 4, BLOCK 90A SNOW HEIGHTS

**City Address:** 11200 TOWNER NE

**Applicant:** ADWELLING DESIGN

**Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** RIO GRANDE ENGINEERING

**Contact:** DAVID SOULE

**Address:** PO BOX 93924 ALB NM 87199

**Phone#:** 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ PLAT \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE ☒ ADMIN SITE

Check all that Apply:

### DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE  
\_\_\_\_\_ TRAFFIC/ TRANSPORTATION

### TYPE OF SUBMITTAL:

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

IS THIS A RESUBMITTAL?: \_\_\_\_\_ Yes ☒ No

### 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:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_

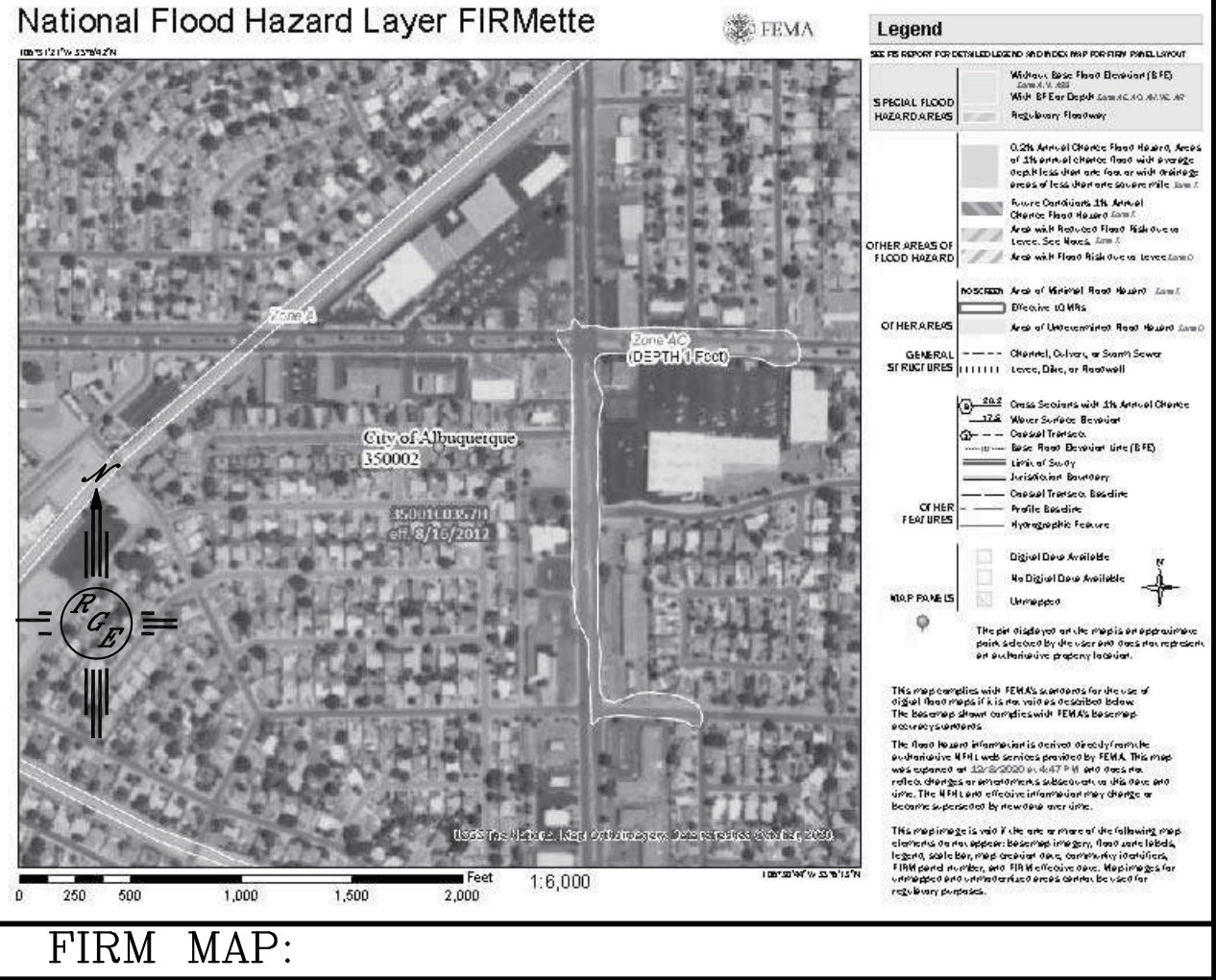
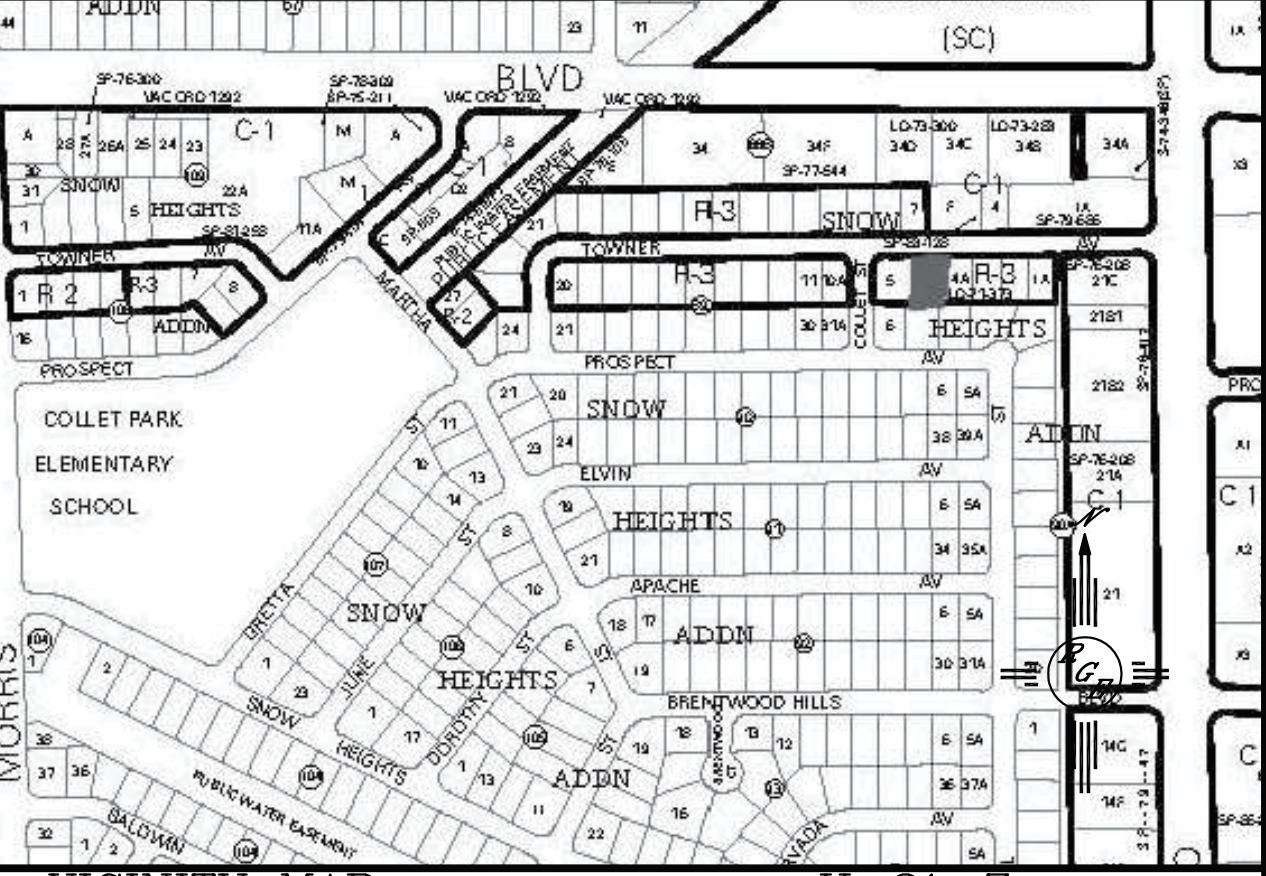
Private Drainage Facilities within City Right-of-Way  
Notice to Contractor  
(Special Order 19 ~ "SO-19")

1. An excavation permit will be required before beginning any work within City Right-Of-Way.
2. 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.
3. 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.
4. 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.
5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
7. Work on arterial streets may be required on a 24-hour basis.
8. Contractor must contact Augie Armijo at (505) 857-8607 and Construction Coordination at 924-3416 to schedule an inspection.

REV. 05/01/2019

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



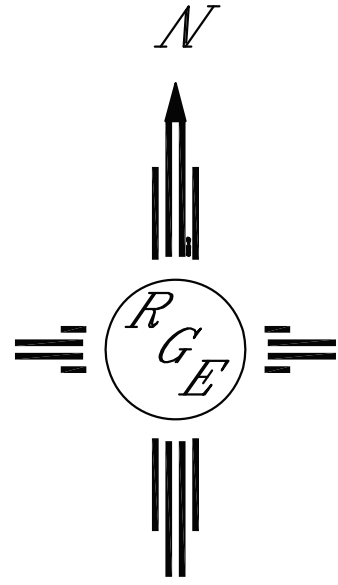
LEGAL DESCRIPTION:  
LOT 4, BLOCK 90A, SNOW HEIGHTS

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL CURB AND GUTTER TO 6" HEADER UNLESS OTHERWISE NOTED.
3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. ALL NEW PAVING SHALL BE 6" PCC OVER 8" SUBGRADE PREPARATION IN CONFORMANCE TO ACI 330R-08. UNLESS OTHERWISE NOTED.
5. ANY CURBS OR PAVEMENT NEGATIVELY IMPACTED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
6. ALL SITE WORK SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARDS FOR PUBLIC WORKS CONSTRUCTION EDITION 9

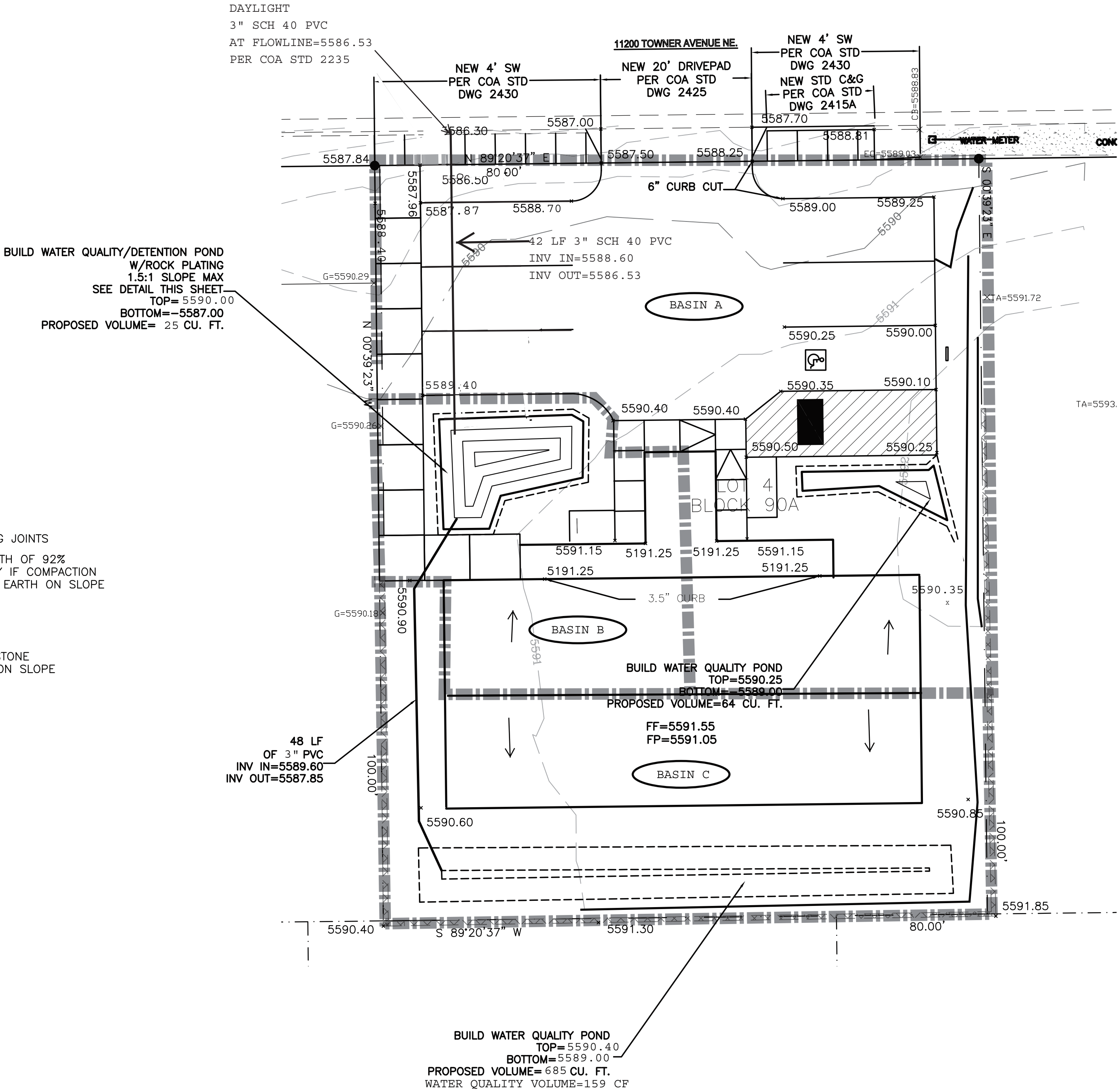
LEGEND

|           |                          |
|-----------|--------------------------|
| — 54.14 — | EXISTING CONTOUR         |
| — 54.15 — | EXISTING INDEX CONTOUR   |
| — 54.14 — | PROPOSED CONTOUR         |
| — 54.15 — | PROPOSED INDEX CONTOUR   |
| — 54.15 — | SLOPE TIE                |
| • 4048.25 | EXISTING SPOT ELEVATION  |
| • 4048.25 | PROPOSED SPOT ELEVATION  |
| — — —     | BOUNDARY                 |
| — — —     | CENTERLINE               |
| — — —     | RIGHT-OF-WAY             |
| — — —     | PROPOSED CURB            |
| — — —     | EXISTING CURB AND GUTTER |
| — — —     | PROPOSED SIDEWALK        |
| — — —     | EXISTING SIDEWALK        |
| — — —     | 3' ADA PATH-2% MAX SLOPE |

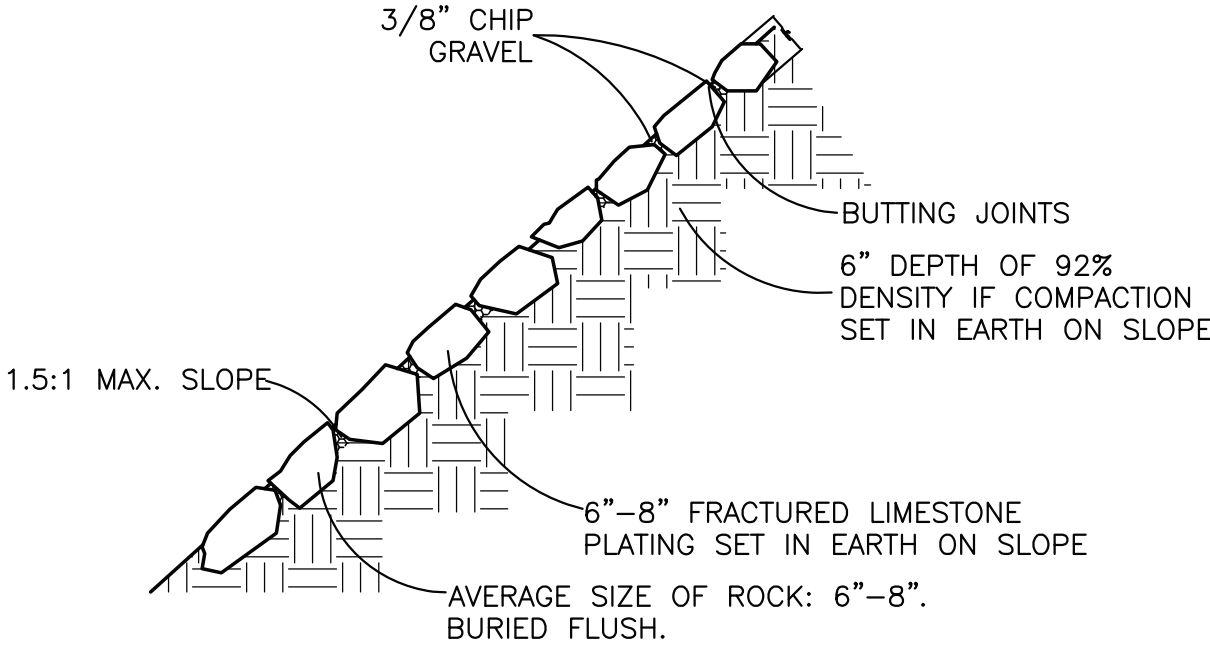


GRAPHIC SCALE

SCALE: 1"=10'



BUILD WATER QUALITY/DETENTION POND  
W/ROCK PLATING  
1.5:1 SLOPE MAX  
SEE DETAIL THIS SHEET  
TOP=5590.00  
BOTTOM=5587.00  
PROPOSED VOLUME= 25 CU. FT.



ROCK PLATING DETAIL  
NTS

CAUTION:  
EXISTING UTILITIES ARE NOT SHOWN.  
IT SHALL BE THE SOLE RESPONSIBILITY  
OF THE CONTRACTOR TO CONDUCT ALL  
NECESSARY FIELD INVESTIGATIONS PRIOR  
TO ANY EXCAVATION TO DETERMINE THE  
ACTUAL LOCATION OF UTILITIES & OTHER  
IMPROVEMENTS.

|                            |                                                                                |                         |
|----------------------------|--------------------------------------------------------------------------------|-------------------------|
| ENGINEER'S<br>SEAL         | 11200 TOWNER                                                                   | DRAWN<br>BY WCWJ        |
|                            | GRADING AND<br>DRAINAGE PLAN                                                   | DATE<br>12-15-20        |
| 1/1/21                     |                                                                                | 2102107-LAYOUT-12-15-20 |
| DAVID SOULE<br>P.E. #14522 | 1606 CENTRAL AVENUE SE<br>SUITE 201<br>ALBUQUERQUE, NM 87106<br>(505) 872-0999 | SHEET #<br>C-1          |
|                            |                                                                                | JOB #<br>2102107        |

## BASIN DATA

\* SITE DISCHARGE CALCULATED UTILIZING AHYMO. THE DETENTION PONDS HAVE DIFFERENT  $T_p$  THEREFORE THE CUMULATIVE DISCHARGE IS SLIGHTLY LESS THAT THE SUMMATION OF EACH BASIN

**Narrative**

The subject property is located within a fully developed area of NE Albuquerque. All down stream drainage improvements have been completed. This is a redevelopment of an existing site that discharges 0.60 cfs to townner. The proposed improvements consist of 3 onsite basins, Basin A free discharges cfs to townner, Basin B and C are routed through detention ponds. The total developed site discharge is 0.48 cfs to townner. Each basin retains in excess of the redeveloped water quality volume required. The site discharges less than historical to the existing outfall.

### STAGE/STORAGE VOLUME CALCULATIONS

## VOLUME CALCULATIONS

| ACTUAL<br>ELEV. | DEPTH<br>(FT) | AREA<br>SF | VOLUME<br>PER UNIT | VOLUME<br>CUMULATIVE | VOLUME<br>AC-FT | Q<br>(CFS) |
|-----------------|---------------|------------|--------------------|----------------------|-----------------|------------|
| 89.00           | 0.00          | 63.00      | 0                  | 0                    | 0.000           | 0.00       |
| 89.60           | 0.00          | 470.00     | 159.90             | 159.9                | 0.004           | 0.00       |
| 90.40           | 0.80          | 844.00     | 525.60             | 685.5                | 0.016           | 0.21       |

|                            |                                        |
|----------------------------|----------------------------------------|
| <u>Orifice Equation</u>    |                                        |
| $Q = CA \text{ SQRT}(2gH)$ |                                        |
| C =                        | 0.6                                    |
| Diameter (in)              | 3                                      |
| Area ( $R^2 2$ )=          | 0.049087385                            |
| g =                        | 32.2                                   |
| H (Ft) =                   | Depth of water above center of orifice |
| Q (CFS)=                   | Flow                                   |

|                            |                                        |
|----------------------------|----------------------------------------|
| <u>Orifice Equation</u>    |                                        |
| $Q = CA \text{ SQRT}(2gH)$ |                                        |
| C =                        | 0.6                                    |
| Diameter (in)              | 3                                      |
| Area (ft <sup>2</sup> )=   | 0.049087385                            |
| g =                        | 32.2                                   |
| H (Ft) =                   | Depth of water above center of orifice |
| Q (CFS)=                   | Flow                                   |