



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: _____ Building Permit #: _____ City Drainage #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: _____

City Address: _____

Engineering Firm: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Owner: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Architect: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Surveyor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

- _____ DRAINAGE REPORT
- _____ DRAINAGE PLAN 1st SUBMITTAL
- _____ DRAINAGE PLAN RESUBMITTAL
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- _____ ENGINEER'S CERT (HYDROLOGY)
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ ENGINEER'S CERT (TCL)
- _____ ENGINEER'S CERT (DRB SITE PLAN)
- _____ ENGINEER'S CERT (ESC)
- _____ SO-19
- _____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- _____ SIA/FINANCIAL GUARANTEE RELEASE
- _____ PRELIMINARY PLAT APPROVAL
- _____ S. DEV. PLAN FOR SUB'D APPROVAL
- _____ S. DEV. FOR BLDG. PERMIT APPROVAL
- _____ SECTOR PLAN APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY (PERM)
- _____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- _____ FOUNDATION PERMIT APPROVAL
- _____ BUILDING PERMIT APPROVAL
- _____ GRADING PERMIT APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ WORK ORDER APPROVAL
- _____ GRADING CERTIFICATION
- _____ SO-19 APPROVAL
- _____ ESC PERMIT APPROVAL
- _____ ESC CERT. ACCEPTANCE
- _____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED: _____ Yes _____ No _____ Copy Provided

DATE SUBMITTED: _____ By: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **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
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

August 4, 2015

Ms. Jeanne Wolfenbarger, PE
Senior Engineer
Hydrology Department
Public Works Department
City of Albuquerque

**RE: Revised Grading Plan (G16-D095E)
National Electric
Albuquerque, New Mexico**

Dear Ms. Wolfenbarger:

The purpose of this letter is to accompany the enclosed revised grading plan. The plan has been revised to address your written comments dated May 28, 2015. The following is an answer to the corresponding comment number to your letter.

1. We have provided a basin map and labeled project limits
2. We have labeled the pond contours
3. We have shown a swap form the 5049.85 at entry to the pond on north side of site.
4. We have shown the roof drains
5. We have updated the drainage narrative to discuss upland flows and retention volumes.
6. We have labeled the flows in the pips and included calculations for capacity in the

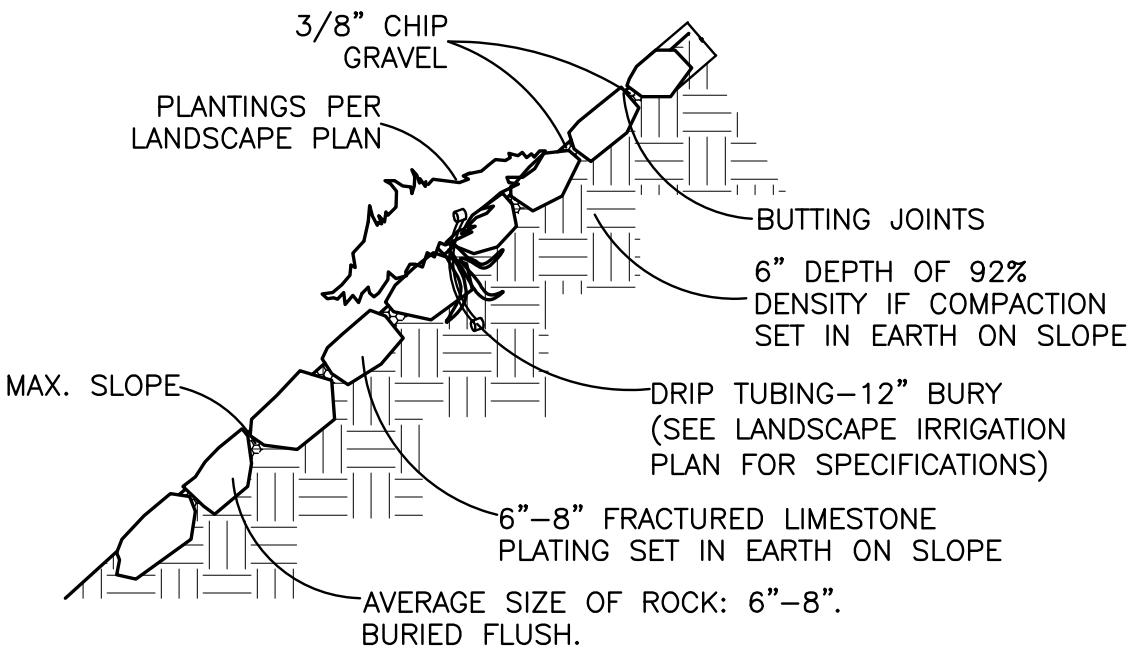
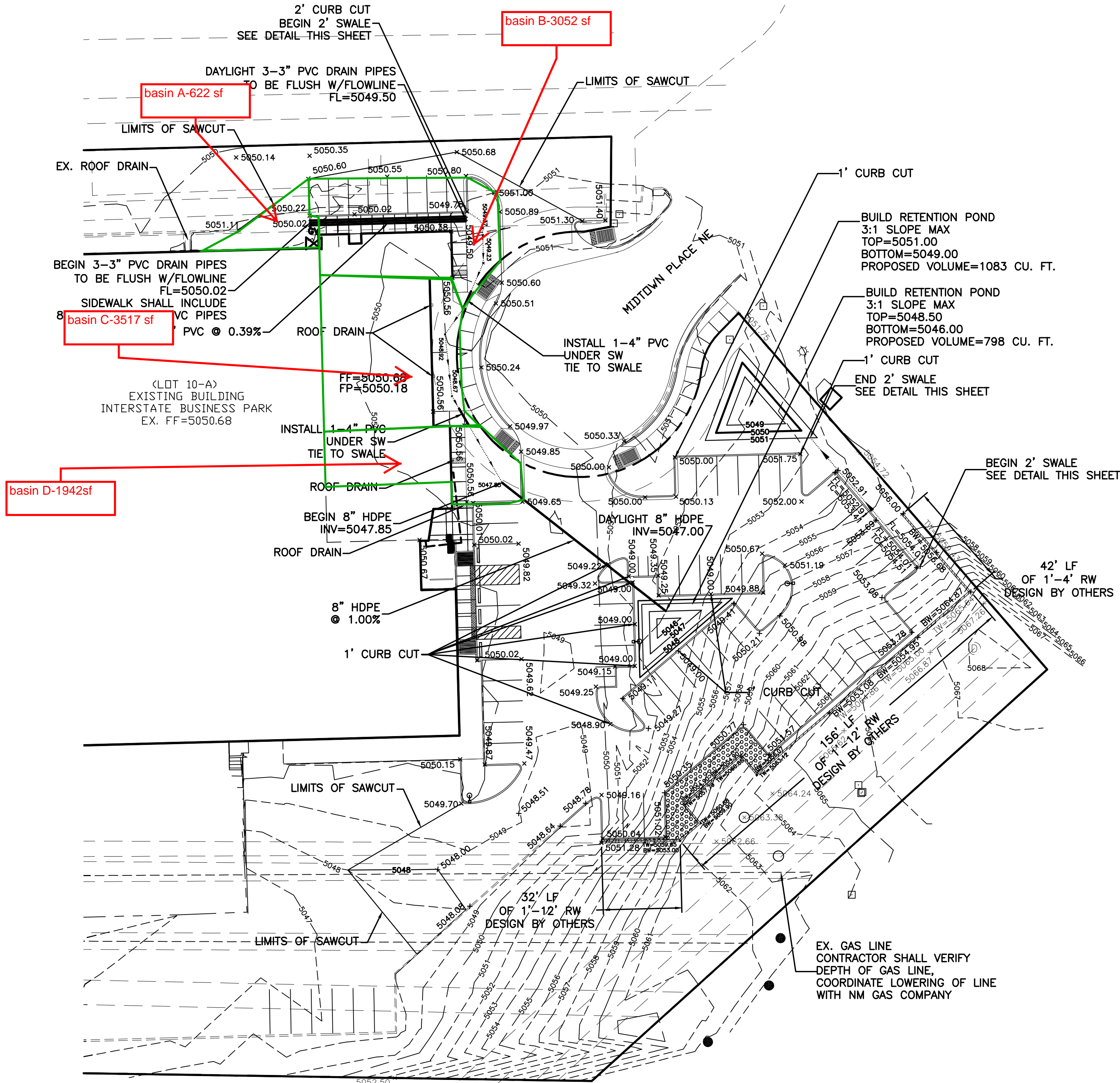
Should you have any questions regarding this matter, please do not hesitate to call me.

Sincerely,

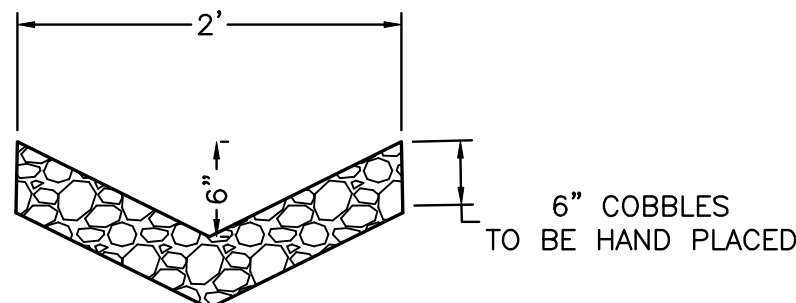
David Soule, PE
RIO GRANDE ENGINEERING
PO Box 93924
ALBUQUERQUE, NM 87199
321-9099

EROSION CONTROL NOTES:

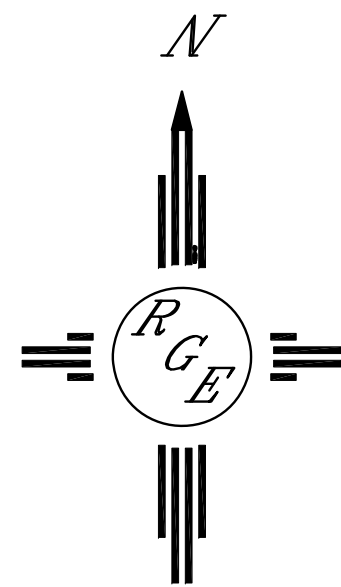
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES 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.



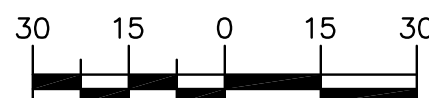
ROCK PLATING DETAIL
NTS



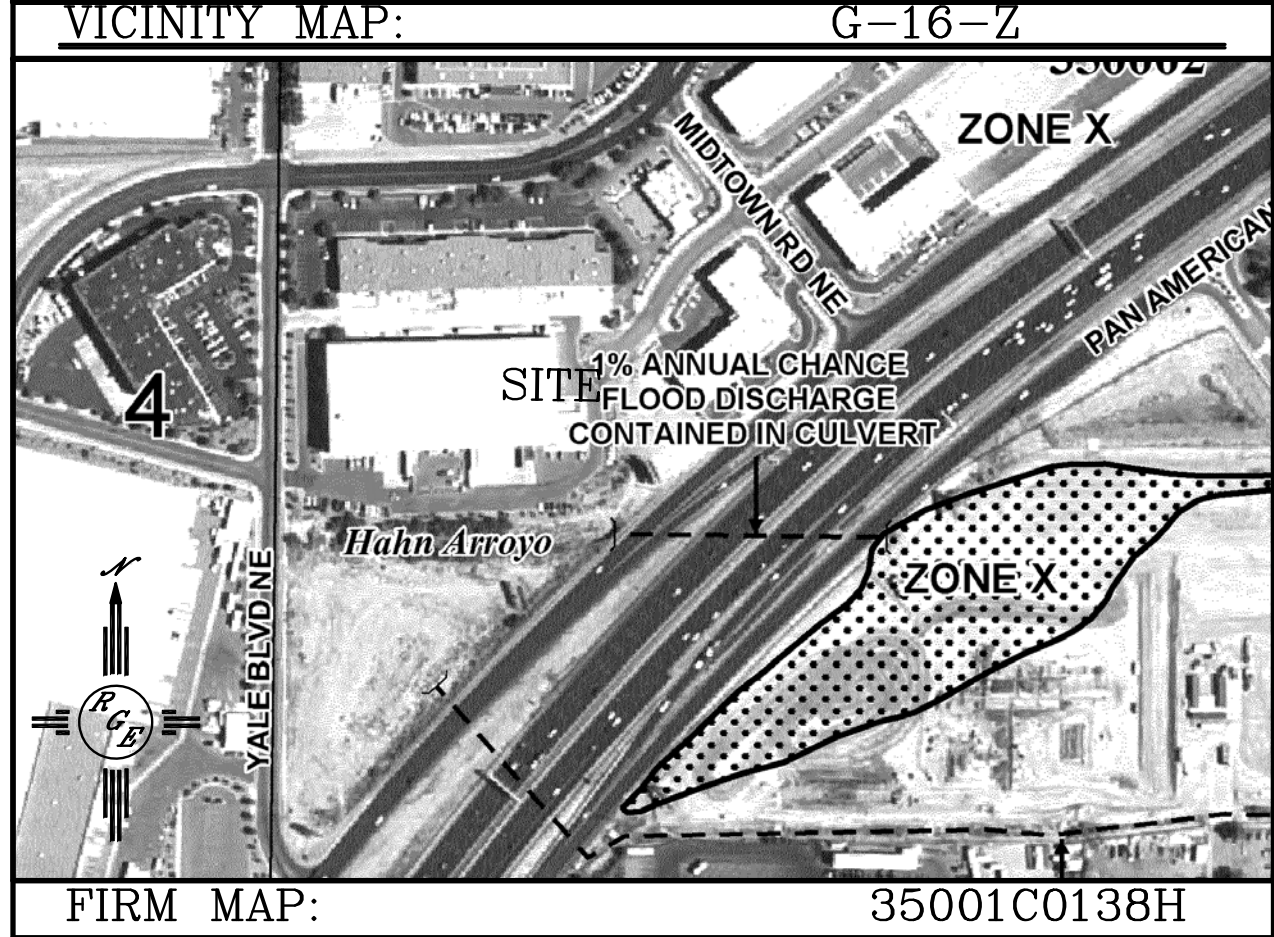
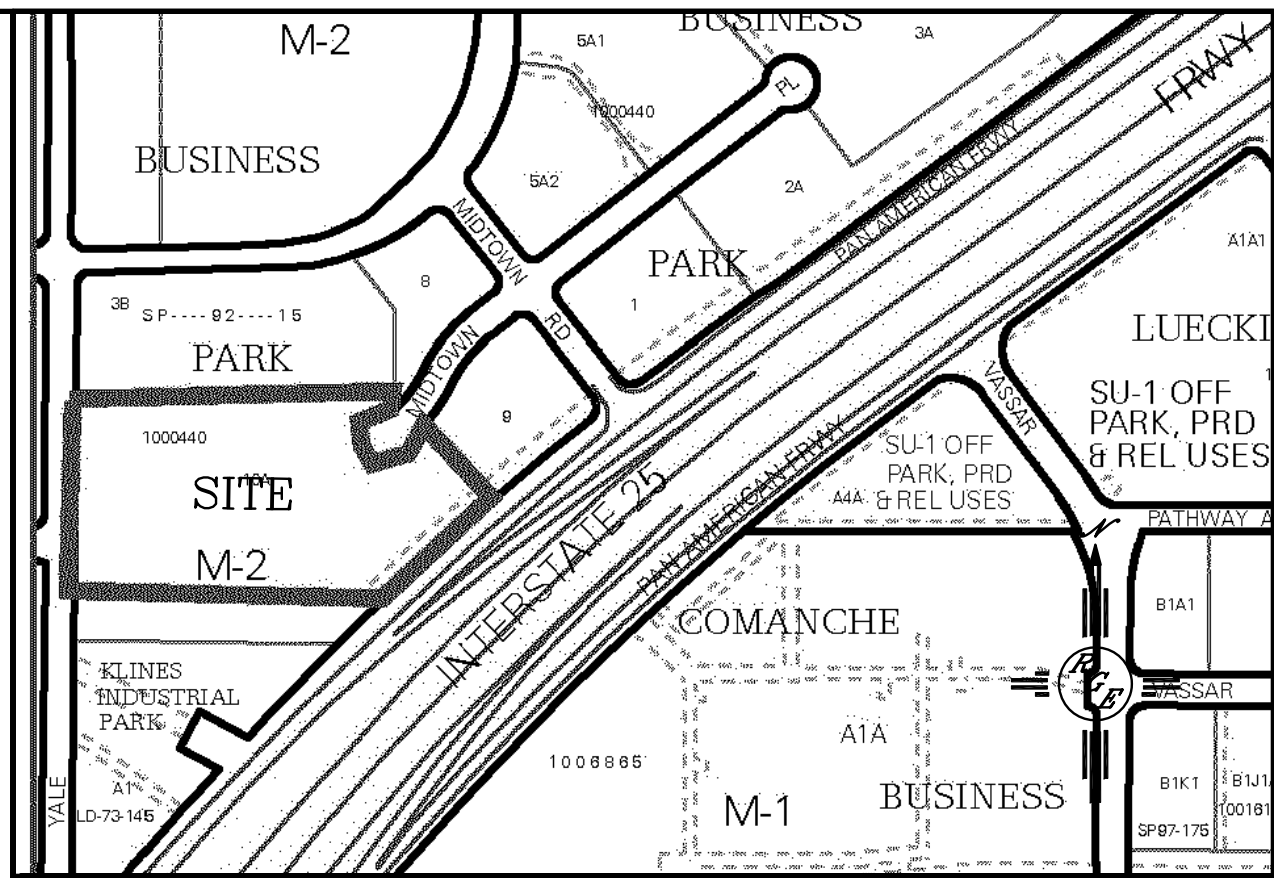
COBBLE SWALE DETAIL
NTS



GRAPHIC SCALE



SCALE: 1"=30'



LEGAL DESCRIPTION:

LOT 10-A MIDTOWN BUSINESS PARK

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.

LEGEND

---	EXISTING CONTOUR
- - -	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
- - -	PROPOSED INDEX CONTOUR
---	SLOPE TIE
x 4048.25	EXISTING SPOT ELEVATION
x 4048.25	PROPOSED SPOT ELEVATION
---	EX. STORM DRAIN
---	BOUNDARY
---	EASEMENT
---	CENTERLINE
---	RIGHT-OF-WAY
---	PROPOSED CURB
---	EXISTING CURB AND GUTTER
---	PROPOSED SIDEWALK
---	EXISTING SIDEWALK
---	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
---	PROPOSED ROCK PLATING (SEE DETAIL THIS SHEET)

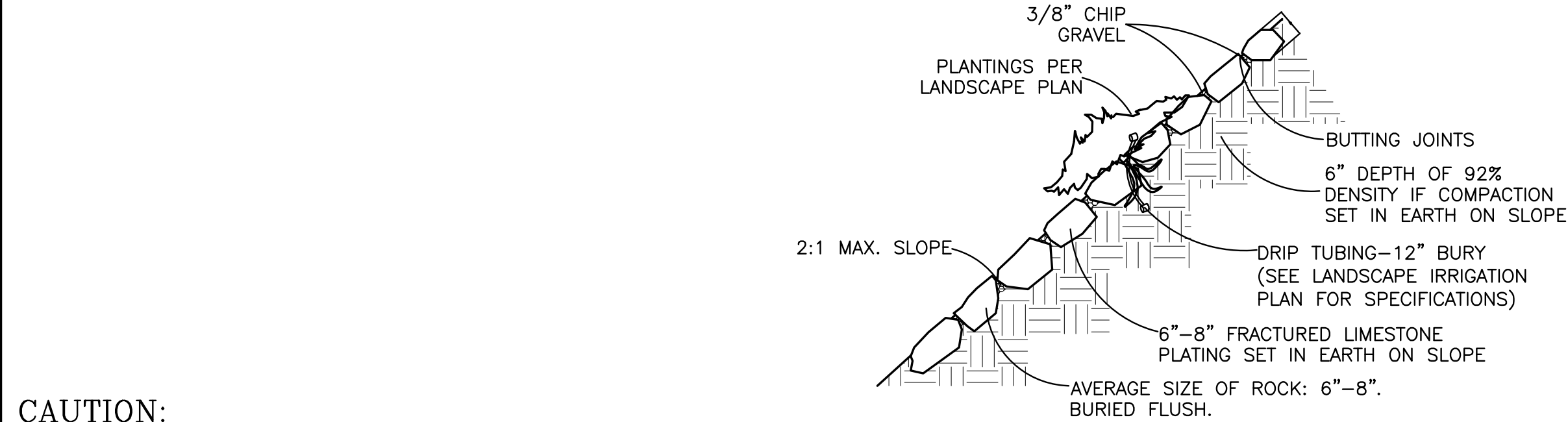
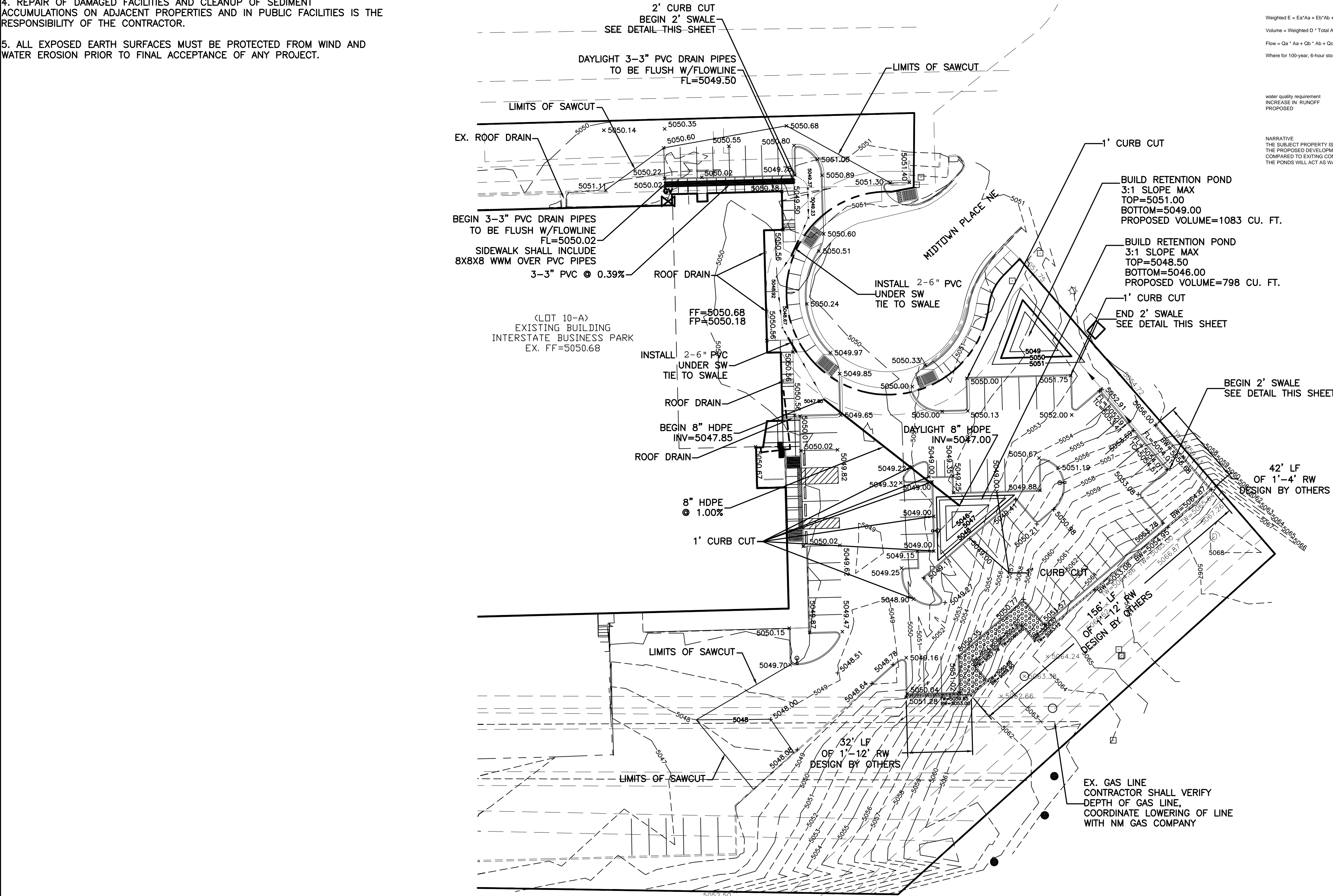
ROUGH GRADING APPROVAL

DATE

ENGINEER'S SEAL	NATIONAL ELECTRIC	DRAWN BY WCWJ
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER	GRADING AND DRAINAGE PLAN	DATE 7-20-15
8/1/15	Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	21514-LAYOUT-4-29-15
DAVID SOULE P.E. #14522		SHEET #
		JOB # 21514

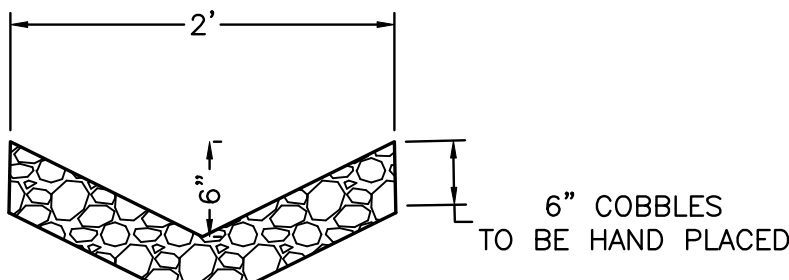
EROSION CONTROL NOTES:

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.



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.

ROCK PLATING DETAIL
NTS



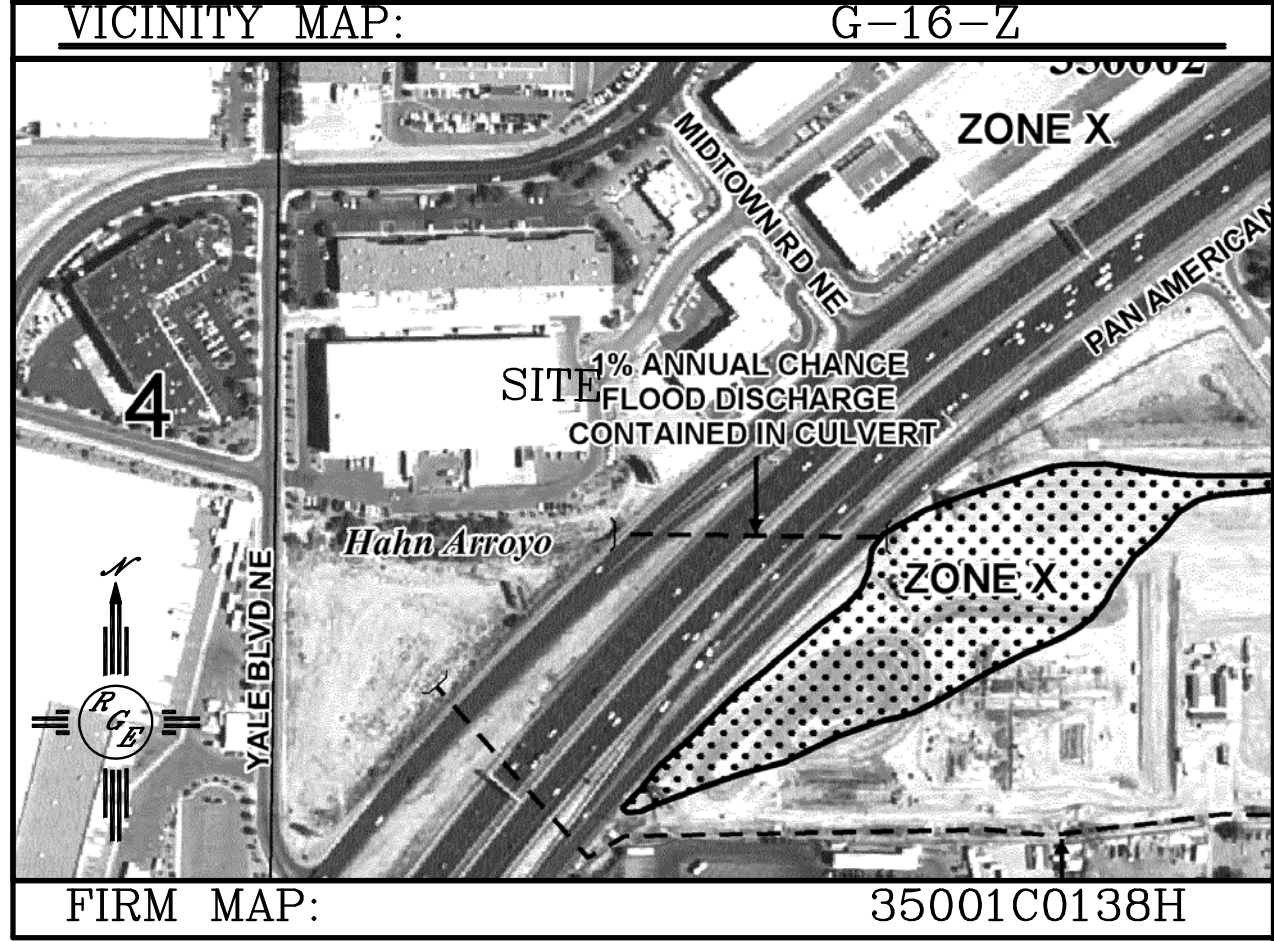
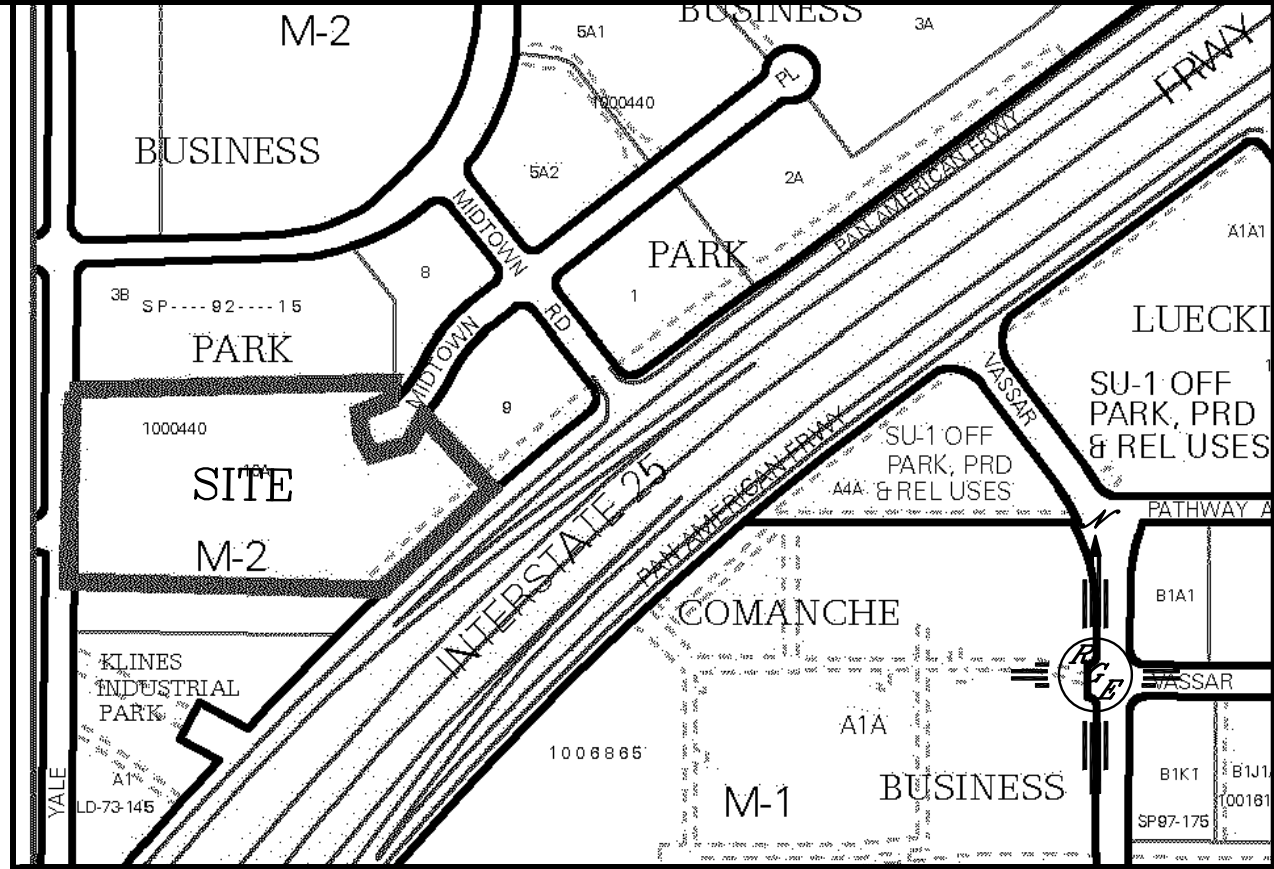
COBBLE SWALE DETAIL
NTS

SITE HYDROLOGY
Weighted E Method
NATIONAL ELECTRIC ADDITION

Existing Developed Basins										
Basin	Area (sq ft)	Area (acres)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Weighted E (acres)	Volume (cu ft)	Flow (cfs)	Flow (gpm)
IMPERVIOUS AREA INCREASE	17240	0.396	0%	0.0%	0.0%	0.0%	0.396	2,120	0.000	1.36
NATIVE AREA DECREASE	17240	0.396	40%	0.1563	0.079	0.1563	0%	0.000	0.000	0.00
SUBBASIN A	652	0.015	0%	0.0%	0.0%	0.0%	0.015	87	0.000	0.00
SUB BASIN B	3562	0.070	0%	0.0%	0.0%	0.0%	0.070	403	0.000	0.00
SUB BASIN C	3517	0.081	0%	0.0%	0.0%	0.0%	0.081	462	0.000	0.00
SUB BASIN D	1942	0.045	0%	0.0%	0.0%	0.0%	0.045	251	0.000	0.00

Equations:
Weighted E = E_aA_a + E_bA_b + E_cA_c + E_dA_d / (Total Area)
Volume = Weighted D * Total Area
Flow = Q_a + Q_b + Q_c + Q_d + Q_e + Q_f
Where for 100-year, 6-hour storm (Zone 2):
E_a= 0.53
E_b= 0.78
E_c= 1.13
E_d= 2.12
Q_a= 1.56
Q_b= 2.29
Q_c= 3.14
Q_d= 4.7
A = Area
R = D₈₆
S = Slope
n = 0.014
water quality requirement INCREASE IN RUNOFF PROPOSED:
558 CUBIC FEET
1888 CUBIC FEET
1881.00 CUBIC FEET
PIPE CAPACITIES REQUIRED: PROVIDED:
3" 0.07 0.1
6" 0.72 1.04
8" 1 1.13

NARRATIVE:
THE SUBJECT PROPERTY IS A FULLY DEVELOPED SITE. THE EXISTING WORK AREA IS PARTIALLY PAVED AND CONTAINS A LARGE SLOPE. THE PROPOSED DEVELOPMENT WILL CREATE HARVEST PONDS EQUAL TO THE INCREASED RUNOFF CAUSED BY THE INCREASE IN THE IMPERVIOUS AREA COMPARED TO EXISTING CONDITIONS. THE INCREASE IN IMPERVIOUS ARE IS 17240 SQUARE FEET. THE INCREASE IN RUNOFF IS 34675 AND 1888 CUBIC FEET. THE PONDS WILL ACT AS WATER QUALITY PONDS AS WELL AS REDUCING THE PEAK DISCHARGE RATE TO WHAT IS SIMILAR TO THE EXISTING CONDITION.



LEGAL DESCRIPTION:

LOT 10-A MIDTOWN BUSINESS PARK


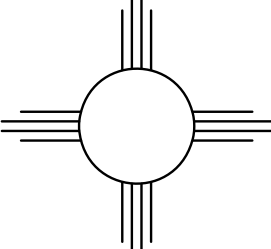
NOTES:

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.

LEGEND

---	EXISTING CONTOUR
---	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
---	PROPOSED INDEX CONTOUR
---	SLOPE TIE
x	EXISTING SPOT ELEVATION
x	PROPOSED SPOT ELEVATION
---	EX. STORM DRAIN
---	BOUNDARY
---	EASEMENT
---	CENTERLINE
---	RIGHT-OF-WAY
---	PROPOSED CURB
---	EXISTING CURB AND GUTTER
---	PROPOSED SIDEWALK
---	EXISTING SIDEWALK
---	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
---	PROPOSED ROCK PLATING (SEE DETAIL THIS SHEET)

ROUGH GRADING APPROVAL DATE

ENGINEER'S SEAL	NATIONAL ELECTRIC	DRAWN BY WCWJ
		DATE 7-20-15
8/1/15		21514-LAYOUT-4-29-15
DAVID SOULE P.E. #14522	 <i>Rio Grande Engineering</i> 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # —
		JOB # 21514