



August 15, 2016

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Mr. Stephen Dixon  
Oxbow Bluff ACC Liaison  
2317 Royene Ave NE  
Albuquerque, NM 87110

Re: Lot 20 – Oxbow Bluff; 3<sup>rd</sup> and Final Review for Lot Specific Grading and Drainage Plan

Dear Stephen:

Based on the revised grading and drainage plan for the above referenced Lot stamped dated 08-10-16 by Rio Grande Engineering, it appears that all the comments have been addressed. A copy of the plan is attached.

Please let me know if you have any comments or concerns.

Sincerely,

A handwritten signature in black ink that reads "Yolanda Padilla Moyer".

Yolanda Padilla Moyer, P.E.  
Senior Project Manager  
Community Development and Planning

YPM/cc

cc: Abiel Carrillo, COA (w/encl)  
David Soule, Rio Grande Engineering

Engineering ▲

Spatial Data ▲

Advanced Technologies ▲



Weighted E Method											
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted E (ac-ft)	100-year 6-hr Volume (ac-ft)	Flow cfs	10-day Volume (ac-ft)	
Existing	20764.00	0.477	100%	0.4767	0%	0.000	0%	0.000	0.440	0.017	0.61
PROPOSED	20764.00	0.477	0%	0.0361	32%	0.153	21%	0.100	39%	0.196	1.22
ALLOWED	20764.00	0.477	0%	0	52%	0.248	0%	0.000	48%	0.229	1.294

**Equations:**

Weighted E = Ea'Aa + Eb'Ab + Ec'Ac + Ed'Ad / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year 6-hour storm(zones):

Ea= 0.44	Qa= 1.29
Eb= 0.67	Qb= 2.03
Ec= 0.99	Qc= 2.87
Ed= 1.97	Qd= 1.37

First flush pond requirements (34") x 8302

235 cubic feet

Ponding required to reduce flow to allowed by retaining the difference between the 100-year 10-day volume

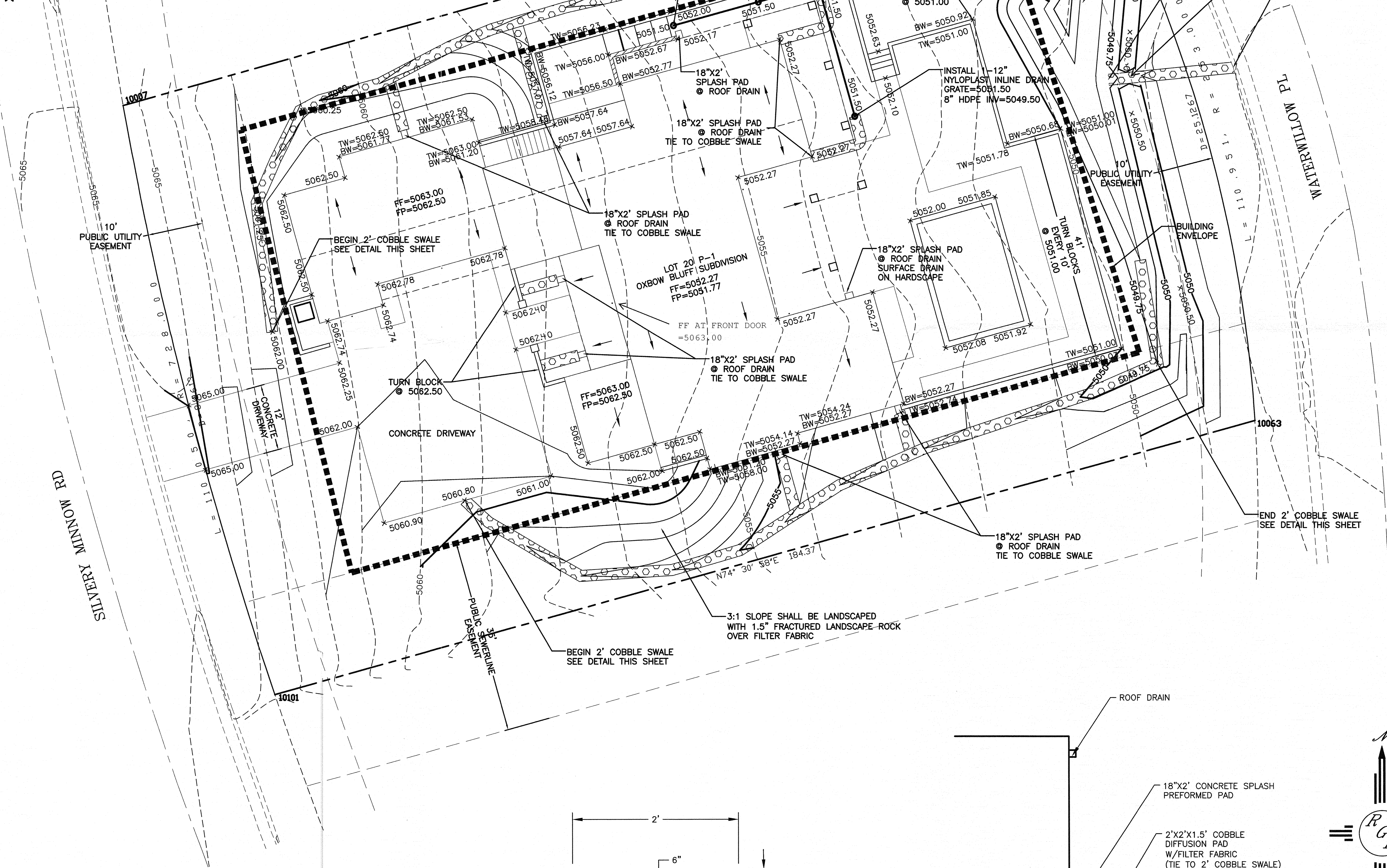
pond contributing basin

2121.0428 cubic feet during 100-year, 6-hour event

**DRAINAGE NARRATIVE**

THIS SITE IS LOCATED WITHIN BASIN H OF THE OXBOW BLUFF DRAINAGE MASTER PLAN G11/D14. THE PLAN CALLS FOR FREE DISCHARGE BASED UPON 42% IMPERVIOUS AND 58% TYPE B. THE MASTER DRAINAGE PLAN ALLOWS FOR FREE DISCHARGE TO ROADWAY. THE FLOWS ARE THEN CONVEYED TO AN EXISTING INLET AND OUTFALL. THE LAND TREATMENT OF THIS LOT GENERATES 02 CFS GREATER FLOW THAN ALLOWED. YET 86 CF LESS TOTAL DISCHARGE IN THE 100 YEAR, 10-DAY DESIGN STORM. A WATER QUALITY POND WAS ADDED TO CONTAIN THE 235 CFS REQUIRED PER THE CITY OF ALBUQUERQUE DRAINAGE ORDINANCE. THEREFORE THE PEAK RATE WILL BE LESS THAN ALLOWED. THE NO FLOW IS ALLOWED TO ENTER THE SITE AND DUE TO EXISTING ROADWAY AND CURB AND GUTTER. THE POND DISCHARGES OVER TOP OF CURB VIA A LINED SWALE. THIS SITE CONFORMS TO THE OXBOW BLUFF MASTER PLAN AND THE CITY OF ALBUQUERQUE FIRST FLUSH ORDINANCE

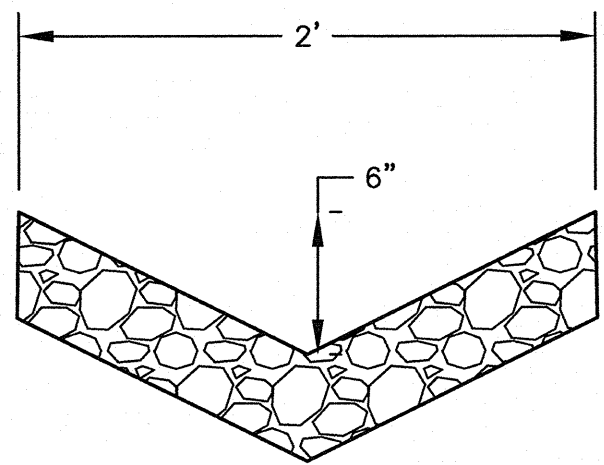
2



**CAUTION:**

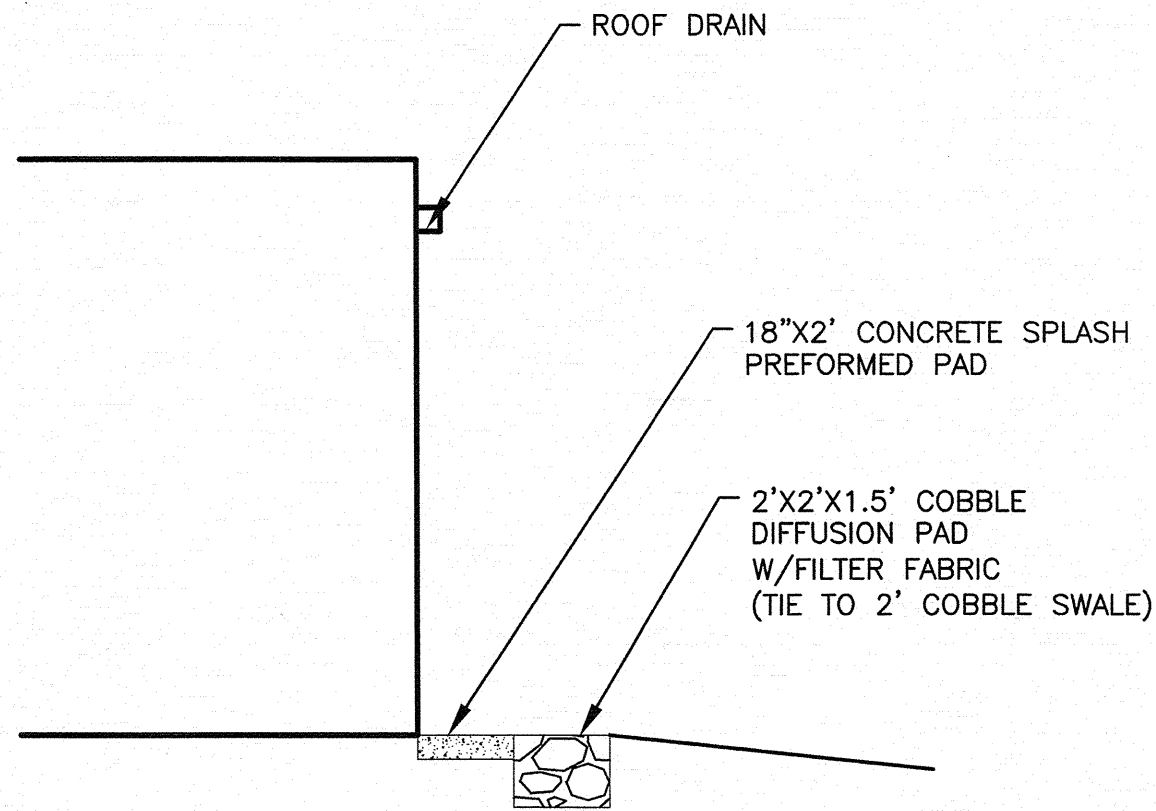
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

Point Table				
Point #	Elevation	Northing	Easting	Description
10007	5065.58	1502899.95	1507396.39	5RBC 6544
10063	5048.28	1502842.65	1507601.30	5RBC ELEG
10091	5049.95	1502948.32	1507570.50	5RBC 6544
10101	5063.73	1502793.43	1507423.62	5RBC ELEG



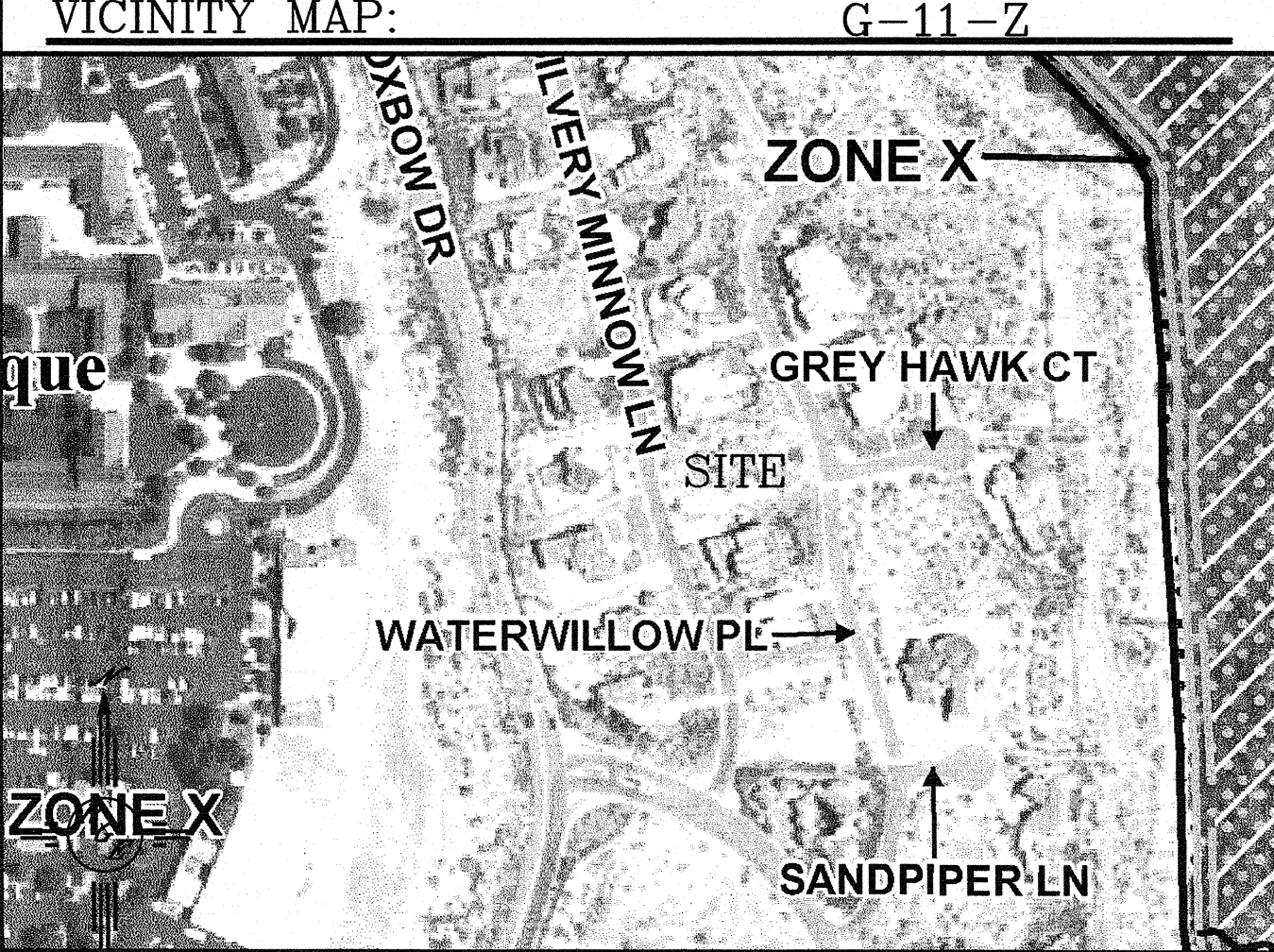
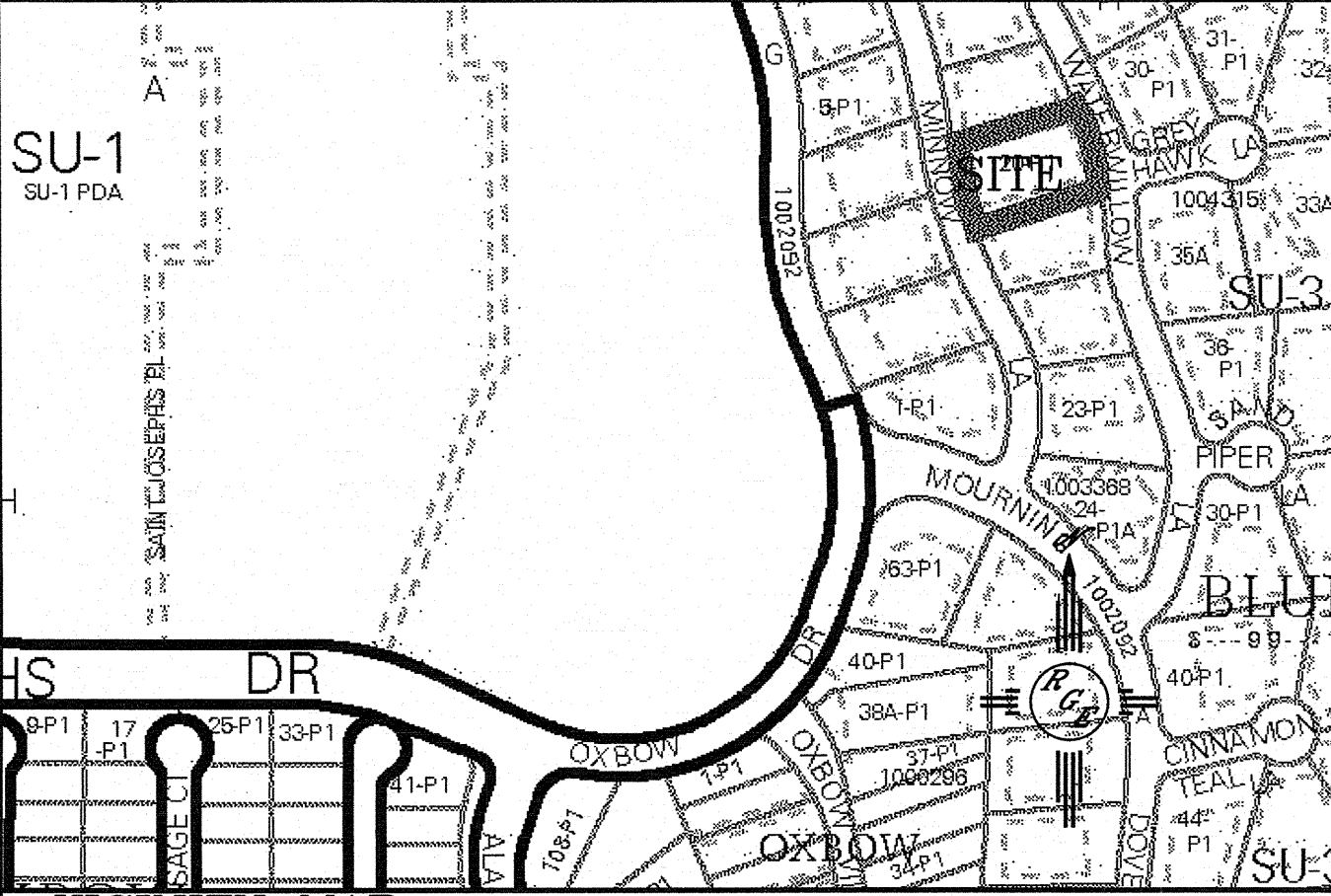
COBBLE SWALE DETAIL

NTS



ROOF DRAIN SPLASH PAD DETAIL

NTS



FIRM MAP: FM35001C0114H

**LEGAL DESCRIPTION:**

LOT 20 P-1, OXBOW BLUFF SUBDIVISION

**NOTES:**

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

**LEGEND**

---	EXISTING CONTOUR
---	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
---	PROPOSED INDEX CONTOUR
---	SLOPE TIE
---	EXISTING SPOT ELEVATION
---	PROPOSED SPOT ELEVATION
---	BOUNDARY
---	EASEMENT
---	RIGHT-OF-WAY
---	PROPOSED EDGE OF CONCRETE
---	EXISTING EDGE OF ASPHALT
---	FLOODPLAIN
---	BUILDING SETBACK

**EROSION CONTROL NOTES:**

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

	LOT 20 P-1 OXBOW BLUFF SUBDIVISION	DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN	DATE 8-01-16
	 1608 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	21623-LAYOUT-6-01-16
8/10/16 DAVID SOULE P.E. #14522		SHEET # — JOB # 21623