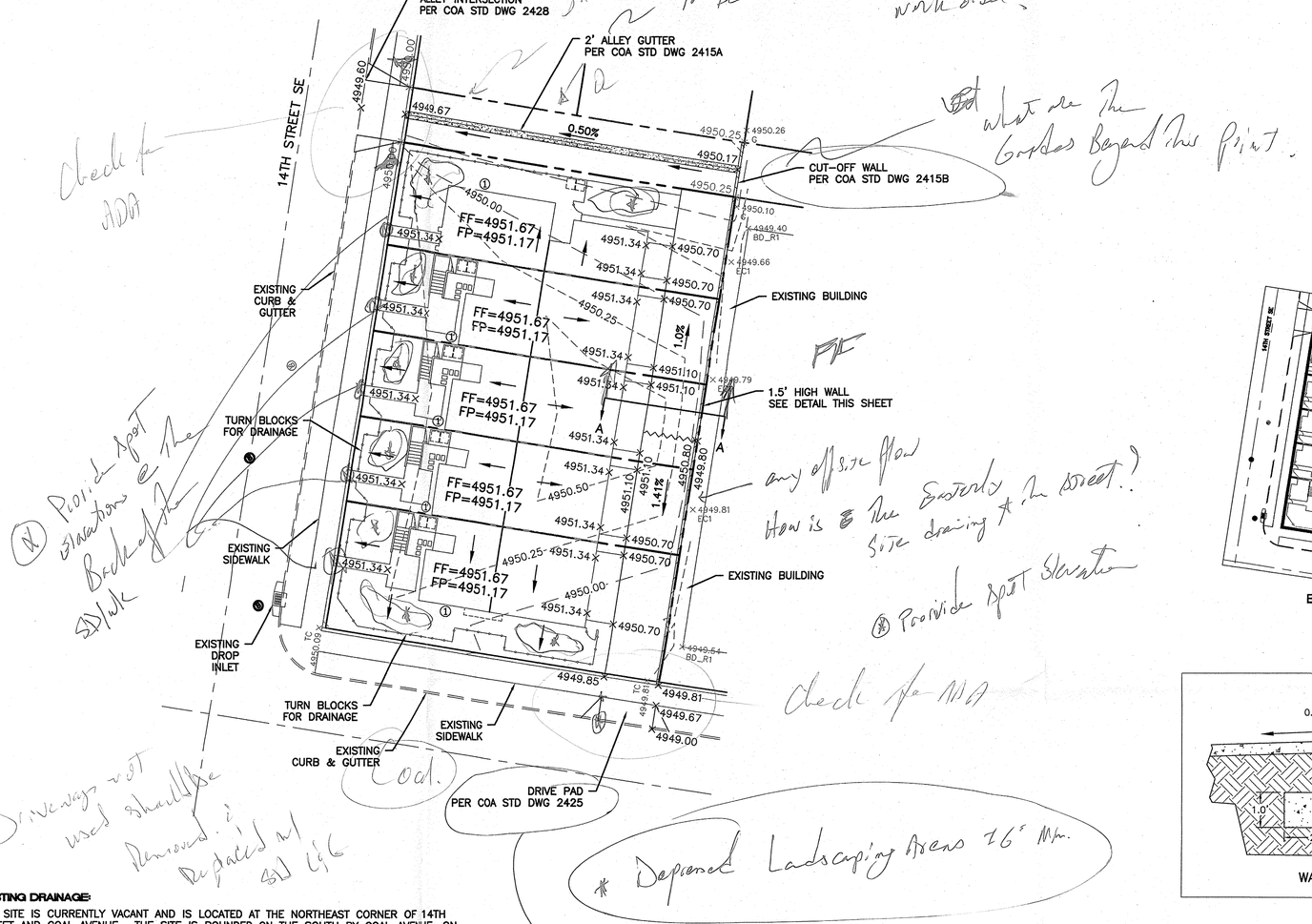
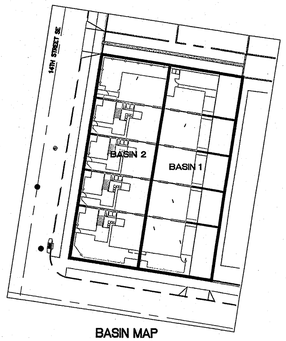
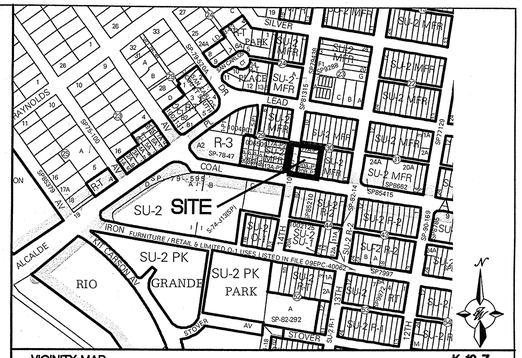


LEGEND

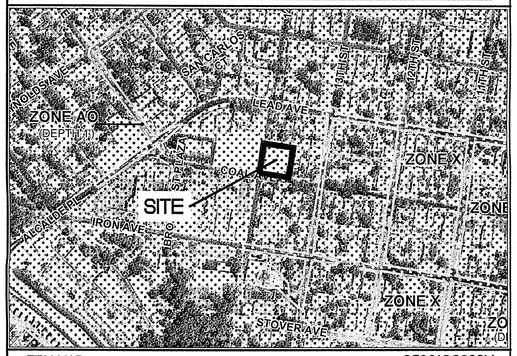
- BOUNDARY LINE
- EASEMENT
- CENTERLINE
- RIGHT-OF-WAY
- RETAINING WALL
- x 5048.25 — SPOT ELEVATION
- FLOW ARROW
- ① — RAIN BARREL (50 GALLON MIN.)
- EXISTING SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE
- 5010 — EXISTING CONTOUR MAJOR
- 5011 — EXISTING CONTOUR MINOR
- x 5048.25 — EXISTING ELEVATION



BASIN MAP



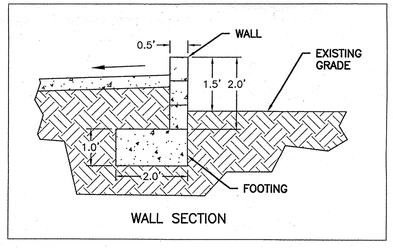
VICINITY MAP: K-13-Z



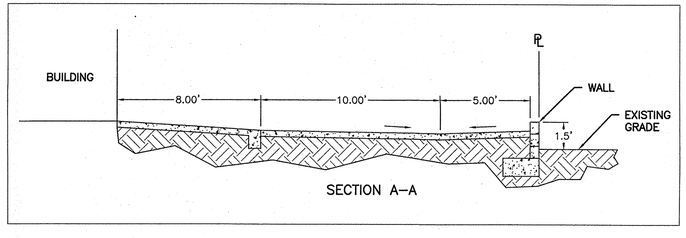
FIRM MAP: 35001C0333H

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. 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 THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.



WALL SECTION



SECTION A-A

RECEIVED
DEC 06 2013
LAND DEVELOPMENT SECTION

EXISTING DRAINAGE:

THE SITE IS CURRENTLY VACANT AND IS LOCATED AT THE NORTHEAST CORNER OF 14TH STREET AND COAL AVENUE. THE SITE IS BOUNDED ON THE SOUTH BY COAL AVENUE, ON THE WEST BY 14TH STREET, ON THE NORTH BY AN ALLEY AND ON THE EAST BY APARTMENTS. THE SITE WAS DEVELOPED AT ONE TIME WITH A PARKING LOT THAT HAS SINCE BEEN REMOVED. ACCORDING TO A DRAINAGE REPORT COMPLETED BY COMMUNITY SCIENCES AND APPROVED ON MAY 15, 2007 THIS SITE HAS A HISTORIC DISCHARGE RATE OF 1.37 CFS. THAT STORM WATER SURFACED DRAINED TO THE STREETS AND INTO A DROP INLET LOCATED AT THE CORNER.

PROPOSED DRAINAGE:

THE SITE IS DIVIDED INTO 2 BASINS. BASIN 1 DRAINS TO COAL AVENUE AND THE ALLEY, BASIN 2 DRAINS TO 14TH STREET. THE STORM WATER FOLLOWS THE SAME PATH AS IT DOES HISTORICALLY AND FLOWS INTO THE DROP INLET AT THE CORNER. THE TOTAL FLOW DISCHARGED *FROM* THE SITE IS 1.37 CFS. EACH UNIT WILL HAVE A RAIN BARREL AS SHOWN ON THE PLAN AND WILL CAPTURE ABOUT 50 GALLONS OF STORM WATER TO BE USED FOR IRRIGATION. THE DEVELOPED FLOWS WERE CALCULATED USING THE WEIGHTED "E" METHOD AND ARE SHOWN IN THE TABLE BELOW.

The 14 East Weighted E Method

On-Site Basins

Basin	Area (sf)	Area (acres)	Treatment A %	Treatment A (acres)	Treatment B %	Treatment B (acres)	Treatment C %	Treatment C (acres)	Treatment D %	Treatment D (acres)	100-Year Weighted E (ac-ft)	100-Year Volume (ac-ft)	100-Year Flow cfs	10-Year Weighted E (ac-ft)	10-Year Volume (ac-ft)	10-Year Flow cfs
1	7,632	0.18	0%	0	25%	0.04	0%	0.00	75%	0.13	1.785	0.026	0.72	1.075	0.016	0.45
2	6,568	0.15	0%	0	15%	0.02	0%	0.00	85%	0.13	1.919	0.024	0.65	1.181	0.015	0.42
													1.37			

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

Excess Precipitation, E (inches)		
Zone 2	100-Year	10 - Year
E_a	0.53	0.13
E_b	0.78	0.28
E_c	1.13	0.52
E_d	2.12	1.34

Peak Discharge (cfs/acre)		
Zone 2	100-Year	10 - Year
Q_a	1.56	0.38
Q_b	2.28	0.95
Q_c	3.14	1.71
Q_d	4.70	3.14

CAUTION:
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

GRAPHIC SCALE
20 10 0 10 20
SCALE: 1"=20'

N

ENGINEER'S SEAL
RONALD R. BOHANNAN
NEW MEXICO
7868
REGISTERED PROFESSIONAL ENGINEER
RONALD R. BOHANNAN P.E. #7868

THE 14TH EAST
14TH AND COAL
GRADING AND DRAINAGE PLAN

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