

NORTHEAST PORTION OF
BLOCK 8
DUKE CITY INDUSTRIAL AREA

WESTERLY 120' OF NORTHERLY 180'
BLOCK 9
DUKE CITY INDUSTRIAL AREA

TRACT 2
BLOCK 9
DIVISION OF LANDS OF ESTATE OF ANITA O CARR
DUKE CITY INDUSTRIAL AREA

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.

Weighted E Method MATHWE STORAGE ADDITION

Existing Developed Basins

Basin	Area (sf)	Area (acres)	Treatment A	Treatment B	Treatment C	Treatment D	10-yr Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	10-day Volume (ac-ft)			
			%	(acres)	(acres)	(acres)					(acres)		
EXISTING	21642	0.497	0%	0.0%	0.000	82.0%	0.4074	1.308	0.054	0.066			
PROPOSED	21642	0.497	0%	13.0%	0.065	60.0%	0.2981	27%	0.134	1.352	0.056	1.71	0.074

Equations:

Weighted E = $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$ / (Total Area)

Volume = Weighted E * Total Area

Flow = $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

Where for 100-year, 6-hour storm (zone 2)

$E_a = 0.53$
 $E_b = 0.78$
 $E_c = 1.13$
 $E_d = 2.12$

$Q_a = 1.56$
 $Q_b = 2.28$
 $Q_c = 3.14$
 $Q_d = 4.7$

FIRST FLUSH REQUIREMENT

165.5613 CUBIC FEET REQUIRED
370 CUBIC FEET PROVIDED

RETAIN WATER FROM NEW CONSTRUCTION
338.3366 CUBIC FEET -100YEAR, 10 DAY

SIDE WALK CULVERT CAPACITY
2.95X2X(67)*1.5= 3.23 CFS

NARRATIVE

THIS SITE IS A DEVELOPMENT OF AN EXISTING SITE. THE ADDITION WILL OCCUR IN A LOCATION THAT IS CURRENTLY HARD PACKED GRAVEL, THE NET INCREASE IN FLOW RATE SHALL BE DUE TO THE ADDITION OF LANDSCAPING. THE INCREASED VOLUME FOR A 10-DAY EVENT WILL BE RETAINED ONSITE. THIS VOLUME EXCEEDS THE FIRST FLUSH REQUIREMENT. THE SITE DRAINAGE WILL BE CONVEYED TO THE RIGHT OF WAY VIA A 2' SIDEWALK CULVERT

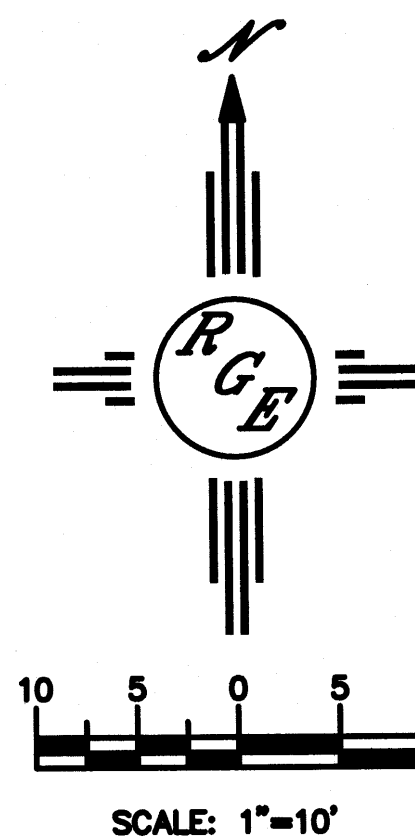
PRIVATE DRAINAGE IMPROVEMENT IN PUBLIC ROW NOTICE TO CONTRACTORS (SPECIAL ORDER "SO-19")

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, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" (OR 505-260-1990.) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL 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 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.
8. PRIOR TO POURING CONCRETE, CONTRACTOR SHALL NOTIFY THE STORM DRAIN INSPECTOR, Jason Rodriguez at 235-8016 prior to pouring and after pouring

APPROVAL	NAME:	DATE:
INSPECTOR		

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.



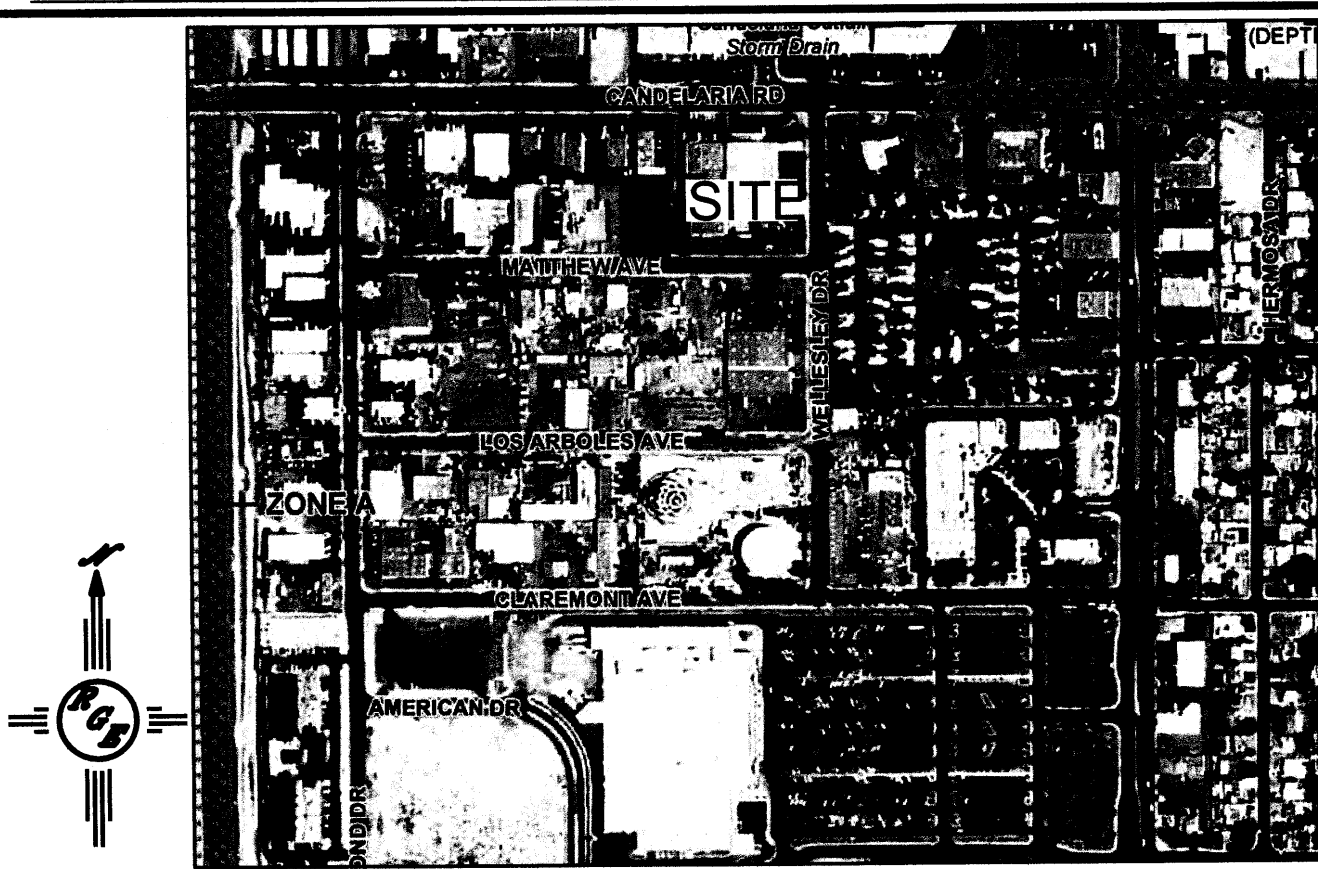
LEGEND

- -5601----- EXISTING CONTOUR
- -5600----- EXISTING INDEX CONTOUR
- -5601----- PROPOSED CONTOUR
- -5600----- PROPOSED INDEX CONTOUR
- LOT LINE
- CENTERLINE
- RIGHT-OF-WAY
- EXTENDED STEM WALL SEE ARCH PLANS FOR DETAILS
- PROPOSED ROCK FACE WALL
- ===== EXISTING CURB AND GUTTER
- PROPOSED EDGE OF CONCRETE
- PROPOSED FLOWLINE
- ===== EXISTING WALL
- ← ROOF DRAIN DIRECTION (TYPICAL)

ENGINEER'S SEAL DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER	BOMACH STORAGE GRADING AND DRAINAGE PLAN	DRAWN BY DEM DATE 9-9-16 PLANS AND SOLE ENGINEERING
9/9/16 9/28/16 DAVID SOULE P.E. #14522	Rio Grande Engineering 1808 CENTRAL AVENUE SUITE 201 ALBUQUERQUE, NM 87106 (505) 675-0000	SHEET # 1 of 1 JOB # XXXXX

VICINITY MAP:

H-16-Z



FIRM MAP:

FM35001C0351H

LEGAL DESCRIPTION:

TRACT 3-A BLOCK 9 DUCK CITY INDUSTRIAL AREA
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

NOTES:

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

EAST 60' OF SOUTHERLY 180'
BLOCK 8
DUKE CITY INDUSTRIAL AREA

WATER QUALITY POND
WITH 3:1 SIDE SLOPE
TOP=23.00
BOTTOM=22.10
VOL=3.05 CY

2' SIDEWALK CULVERT
INVERT IN=22.95
TO BE CONSTRUCTED
UNDER 5019 PROCESS
PER COA STD DWG 2236
CULVERT AND PLATES
SHALL EXTEND 1' INTO
PROPERTY

SIDWALK SHALL BE REMOVED
FROM JOINT TO JOINT, WITH
NO SAW CUTTING

SAS MH
INV N = 5115.56
INV W = 5116.6
INV S = 5115.48
TBM-RIM=5123.41

MATTHEW AVE, NE.
(60' R/W)

SAS MH
INV = 5123.67