

NOTES

1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 1986, 7TH EDITION W/ UPDATES.
2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS INDICATED OTHERWISE.
3. INSPECTION OF TRANSPORTATION ELEMENTS OF CONSTRUCTION FOR CERTIFICATE OF OCCUPANCY (C.O.) WILL BE DONE FROM THIS SHEET.

KEYED NOTES

1. PROVIDE 3' MIN. WIDTH OF 2 PERCENT CROSS-SLOPE FOR COMPLIANCE OF ADA (AMERICAN DISABILITIES ACT) ACCESS ROUTE.
2. PROVIDE ONE WAY SIGN (ARROW)
3. PROVIDE DO NOT ENTER SIGN
4. LABEL SIGN 'VAN ACCESSIBLE'

LEGEND

- NEW CONCRETE CURB (0.5' HEIGHT)
- NEW P.C.C., CONCRETE
- TOP OF CURB, EXISTING
- FLOWLINE
- EXISTING POWER POLE
- FACE OF CURB/FACE OF CURB
- TRAFFIC FLOW DIRECTION
- PAINTED MARKING

AS-CONSTRUCTED

I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH THE LAWS IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE ROADWAY, GRADING AND DRAINAGE IMPROVEMENTS SHOWN ON THIS PLAN ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN.

PHILIP W. CLARK, P.E. #10265
12/22/06
[Professional Engineer Seal]

Include (detectable warning surface) & truncated domes

PARKING CALCULATIONS:

REQUIRED FOR:	
RESTAURANT FACILITY	72 SEATS / 4 = 18 SPACES
	10% REDUCTION (WITHIN 300' OF TRANSIT ROUTE)
TOTAL	7 SPACES
ADA ACCESSIBLE (VANS INCLUDED)	2 TOTAL (1)
ACTUAL PROVIDED:	24 SPACES

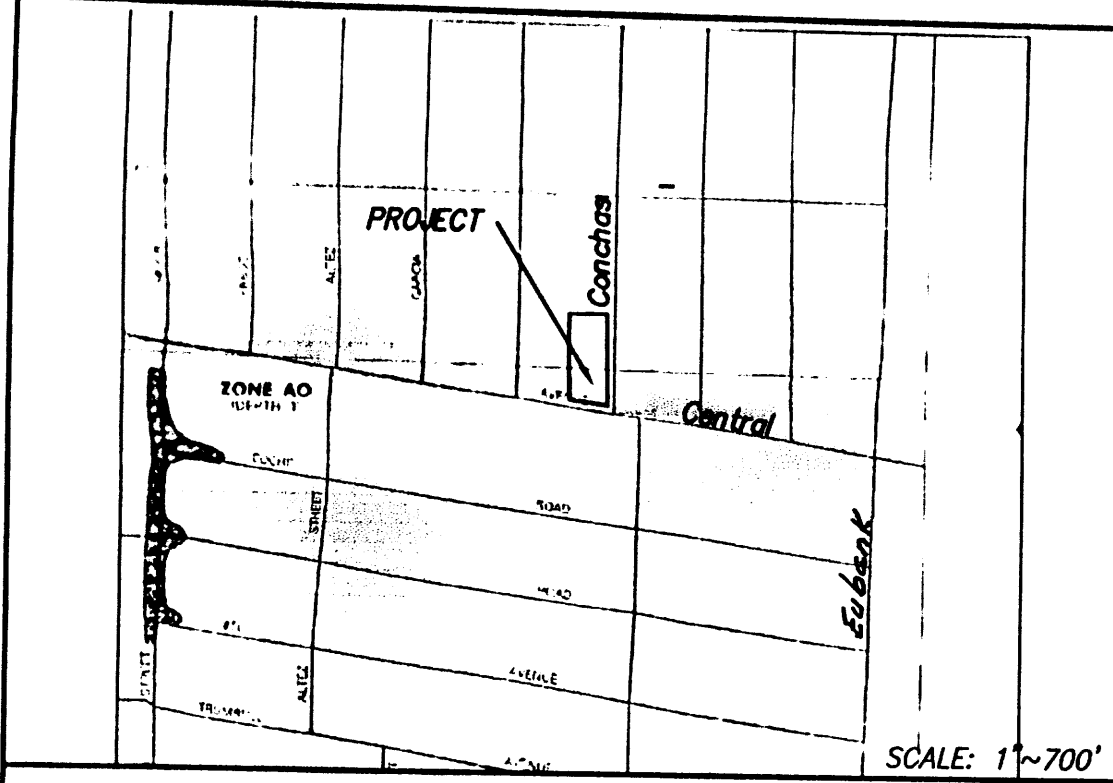
RECEIVED
JAN 18 2007
HYDROLOGY SECTION

TRAFFIC CIRCULATION LAYOUT
APPROVED
[Signature]
Date

PHILIP W. CLARK
10265
[Professional Engineer Seal]
5/11/2006

Clark Consulting Engineers		19 Ryan Road Edgewood, New Mexico 87015	
Tel: (505) 281-2444		Fax: (505) 281-2444	
DATE	REVISION	LOTS A AND B, BLOCK 5, BUENA VENTURA ADDITION	
12/22/06	As-Built	DEL TACO ALBUQUERQUE	
1/10/07	" "	10015 E. CENTRAL AVE. NE	
		TRAFFIC CIRCULATION LAYOUT	
DESIGNED BY: PWC	DRAWN BY: CCE	JOB #: Del Taco2	
CHECKED BY: PWC	DATE: 1/10/07	FILE #	

5/24/06
REVIEW



FIRM MAP PANEL # 358 D

GRADING & DRAINAGE PLAN

THE PROPOSED RESTAURANT DRIVE-UP FACILITY PROJECT IS LOCATED IN THE NORTHEAST AREA OF ALBUQUERQUE ON CENTRAL AVENUE 2 BLOCKS WEST OF EUBANK AVENUE. THE GRADING AND DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE, NO.88-46, AND THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND IMPROVEMENTS.
2. PROPOSED IMPROVEMENT: 2200 SF RESTAURANT BUILDING, ASPHALT DRIVE/PARKING, CONCRETE FLAT WORK, NEW GRADE ELEVATIONS, REFUSE LOCATION, AND LANDSCAPING. **5' Lot Line Adjustment**
3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4. QUANTIFICATION OF DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS WHICH CONTRIBUTE TO THE EXISTING FLOWS.

PRESENTLY, THE SITE IS A VACATED FORMER FAST-FOOD RESTAURANT WITHOUT VEGETATION. THE SITE IS BOUNDED BY DEVELOPED COMMERCIAL ZONED FACILITIES. THE SITE FALLS APPROXIMATELY 1% FROM SOUTHEAST TO NORTHWEST.

CONCHAS ST. IS A LOCAL STREET WITH 2 LANES, WITH CURB, GUTTER AND ATTACHED SIDEWALKS. SITE RUNOFF WILL BE ALLOWED TO EITHER DRAIN THROUGH THE SITE, OR PONDED IN DEPRESSED LANDSCAPE AREAS. THE SITE HAS HISTORICALLY DRAINED TO THE NORTHWEST AND VIA THE EXISTING DRIVES.

HISTORICAL DOWNSTREAM OUTFALL LOCATIONS WILL REMAIN UNCHANGED WITH DEVELOPMENT. FREE DISCHARGE OF SITE RUNOFF IS ACCEPTABLE SINCE DOWNSTREAM CAPACITY EXISTS AND THE DEVELOPED RUNOFF DECREASES DUE TO DEVELOPMENT. A PORTION OF SITE RUNOFF IS ROUTED THROUGH PROPOSED LANDSCAPING.

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) REVISED JANUARY 1993 FOR CITY OF ALBUQUERQUE, ADOPTED BY THE COUNTY OF BERNALILLO
DISCHARGE RATE: $Q = Q_{PEAK} \times AREA$, "Peak Discharge Rates For Small Watersheds"
VOLUMETRIC DISCHARGE: $VOLUME = E_{WEIGHTED} \times AREA$
 $P_{100} = 2.60$ inches, Zone 3 Time of Concentration, TC = 10 Minutes
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

EXISTING CONDITIONS

LOT AREA = 0.60 ACRES, WHERE EXCESS PRECIP. "D" = 2.36 in. [1.5]
PEAK DISCHARGE, $Q_{100} = 3$ CFS [2] WHERE UNIT PEAK DISCHARGE "D" = 5.02 CFS/AC. [3.4]
THEREFORE: $VOLUME_{100} = 5140$ CF [3267]

DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA

UNDEVELOPED	AREA	LAND TREATMENT	Q_{Peak}	E
LANDSCAPING -	0.09 AC.	A	1.87[0.98]	0.66[0.19]
COMPACTED SOIL & Slopes > 1%	0.08 AC.	B	2.60[1.19]	0.92[0.36]
ROOF - PAVEMENT	0.43 AC.	C	3.43[2.00]	1.29[0.62]
	0.60 AC.	D	5.02[3.39]	2.36[1.50]

THEREFORE: $E_{WEIGHTED} = 2.00$ in. [1.21] & $VOLUME_{100} = 4356$ CF
 $Q_{100} = 2.7$ CFS
 $Q_{100} = 1.7$ CFS

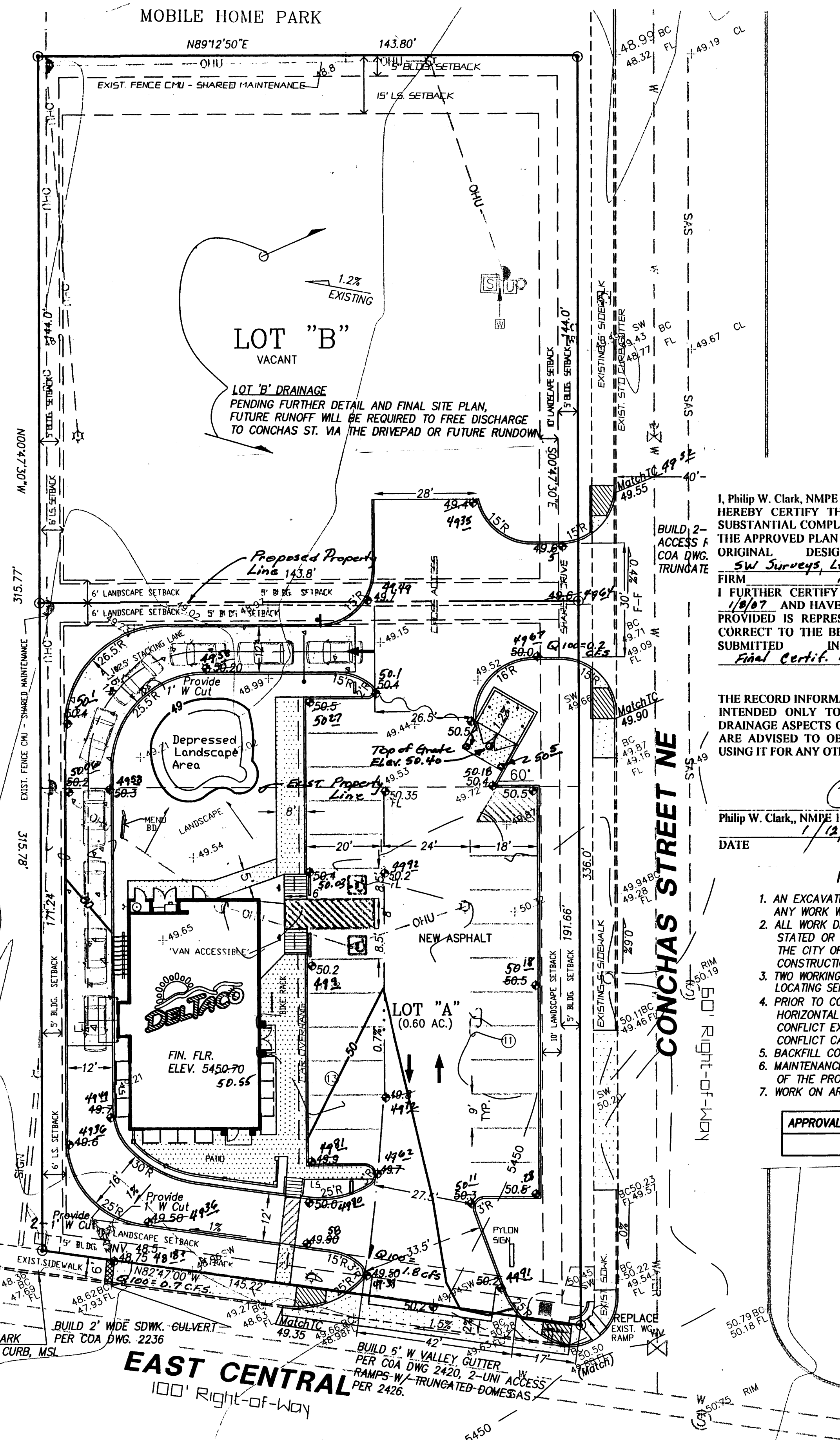
DOWNSTREAM ANALYSIS

THE SITE HISTORICALLY, AND AS DEVELOPED WILL OUTFALL RUN-OFF TO DRIVECUTS ON BOTH CENTRAL AVE. AND CONCHAS ST.

FREE DISCHARGE IS ACCEPTABLE SINCE THE DOWNSTREAM BASIN HAS CAPACITY. THE PROJECT TIME TO PEAK IS MUCH LESS THAN OVERALL BASIN TIME TO PEAK & INCREASE DUE TO DEVELOPMENT IS MINIMAL. (ACTUAL DECREASE FROM THE EXISTING. (3.3 CFS))

A PORTION OF DEVELOPED RUNOFF WILL BE ROUTED TO AND/OR THROUGH REQUIRED LANDSCAPING.

C.2 ZONING
SERVICE STATION
(CHEVRON)



Scale: 1" = 20'

DRAINAGE CERTIFICATION

I, Philip W. Clark, NMPE 10265, OF Clark Consulting Engineers, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 7TH EDITION W/UPDATES. THE APPROVED PLAN DATED 8/22/06 THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY SW SURVEYS, LLC. NMPS 112 OF THE FIRM.

I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 1/8/07 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR Final Certificate of Occupancy.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Philip W. Clark, NMPE 10265

DATE 1/12/2007

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 HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STD. SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 7TH EDITION, AND AMENDMENT #1.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT THE LINE LOCATING SERVICE, NM ONE CALL 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 BEING SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HR. BASIS.

APPROVAL	NAME	DATE

VICINITY MAP

NOTES

1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 7TH EDITION W/UPDATES.
2. AN EXCAVATION/CONSTRUCTION PERMIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
3. 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.
4. ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL. ASPHALT PARKING AREA SHALL DRAIN DIRECTLY TO NEW DRIVEWAYS.
5. LANDSCAPING IRRIGATION SYSTEM SHALL BE DRIP-TYPE. CONTRACTOR SHALL INSTALL SYSTEM PRIOR TO PLACEMENT OF PAVING (SEE SHEET C-1).
6. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
7. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1011, NATIVE SEED MIX.
8. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL TO 1 VERTICAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.
9. Contractor shall ensure positive drainage to Poly Drain in Apron of Refuse Enclosure. SEE Sheet C3, Site Utility Plan.

LEGEND

EXIST. SPOT ELEVATION	+24.0
EXIST. CONTOUR	-10
NEW SPOT ELEVATION	+24.0
NEW CONTOUR	-12
NEW SWALE	
DRAINAGE DIRECTION, EXISTING	
NEW CONCRETE CURB (0.5' HEIGHT)	
NEW P.C.C., CONCRETE	
TOP OF CURB, EXISTING	TC
FLOWLINE	FL
EXISTING POWER POLE	OPP
FACE OF CURB/FACE OF CURB	F-F
RIPRAP EROSION CONTROL (6" DIA. SMOOTH COBBLES)	

I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH THE LAWS IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE ROADWAY, GRADING AND DRAINAGE IMPROVEMENTS WERE CONSTRUCTED AS SHOWN.
PHILIP W. CLARK, P.E. #10265 12/22/06

PROJECT DATA

LEGAL DESCRIPTION (Existing Platting)

LOT(S) A & B, BLOCK 5, BUENA VENTURA ADDITION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK

TOP OF EXISTING CURB AT THE PROJECTION OF PROJECT SOUTHWEST PROPERTY CORNER, MSL ELEVATION = 5448.36 (TIED FROM ACS 16-K20, LOCATED @ THE NNE CURB RETURN OF CENTRAL AND PARSIFAL ST.)

TOPOGRAPHIC DESIGN SURVEY

COMPILED BY CLARK CONSULTING ENGINEERS FROM DESIGN SURVEY PERFORMED IN MAY 2006 BY SOUTHWEST SURVEYS LLC

Clark Consulting Engineers
19 Ryan Road
Edgewood, New Mexico 87015

Telephone: (505) 281-2444 Fax: (505) 281-2444

DATE: 6/26/06 REVISION: 1

6/26/06 Add. City DEL TACO ALBUQUERQUE

8/22/06 Add. Add'l 10015 CENTRAL AVE. NE

1/12/07 At Bldg. Per C City Council Del TACO

DESIGNED BY: PWC DRAWN BY: CCE JOB #: Del Taco2

CHECKED BY: PWC DATE: 4/12/06 FILE #: G/D

C1 OF 1

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PHILIP W. CLARK NMPE #10265