

SUBJECT PROPERTY IS NOT IN FLOOD HAZARD ZONE.

FIRM MAP PANEL # 143 G

GRADING & DRAINAGE PLAN

THE RESTAURANT - LEASE SPACE PROJECT IS LOCATED IN THE NORTH TOWN PLAZA OF ALBUQUERQUE APPROXIMATELY 7 MILES NE OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & 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 EXISTING IMPROVEMENTS;
2. PROPOSED IMPROVEMENTS: 5000 SF BUILDING, CONCRETE FLATWORK AND PARKING UPGRADES, NEW GRADE ELEVATIONS AND LANDSCAPING.
3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4. QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF-SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF AND EROSION, AND ESSENTIALLY ALLOWING HISTORIC FLOWS TO CONTINUE TO DRAIN THROUGH THE PROPERTY. PRESENTLY, THE SITE IS BOUNDED ON THE PERIMETER BY DEVELOPED COMMERCIAL PROPERTY. WYOMING BOULEVARD ON THE EAST IS PAVED WITH CURB, GUTTER AND 10' SIDEWALK, AND MAINTAINED BY THE CITY OF ALBUQUERQUE. THE SITE CURRENTLY DRAINS AT 3.5% FROM EAST TO WEST.

HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. NO GRADING IS PROPOSED WITHIN THE CITY RIGHT-OF-WAY. FREE-DISCHARGE OF RUNOFF IS ACCEPTABLE SINCE THE SHOPPING CENTER RETAINS STORM WATER IN AN EXISTING RETENTION POND LOCATED IN THE NW PORTION OF THE PLAZA. 2000 S.F. OF DEVELOPED RUNOFF IS ROUTED THROUGH LANDSCAPING TO MITIGATE RUNOFF FROM THE SITE AREA.

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

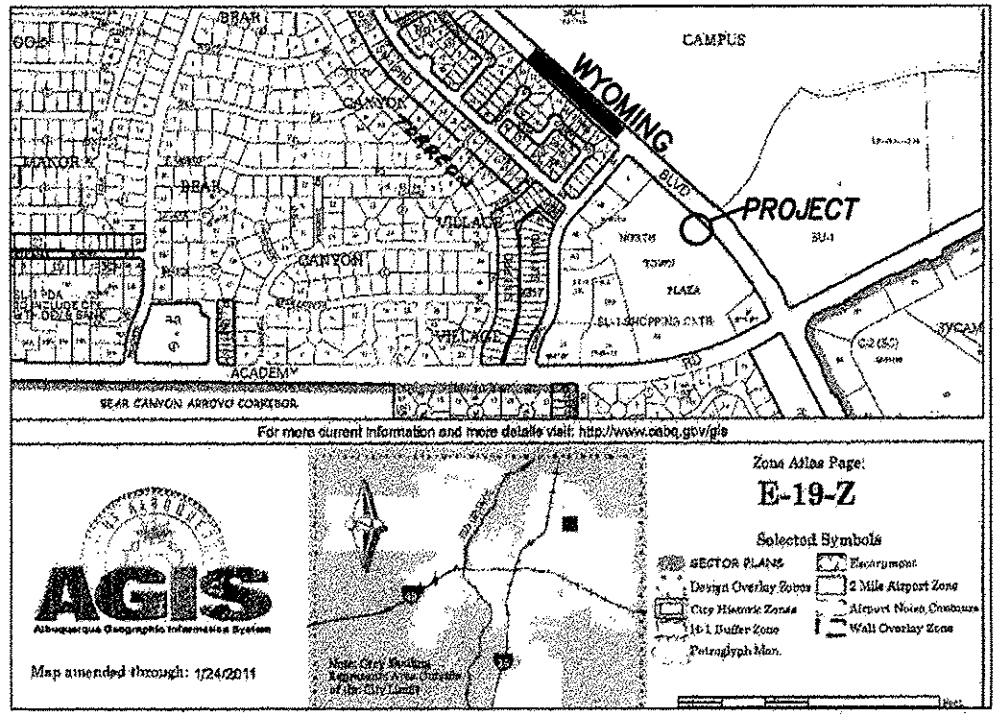
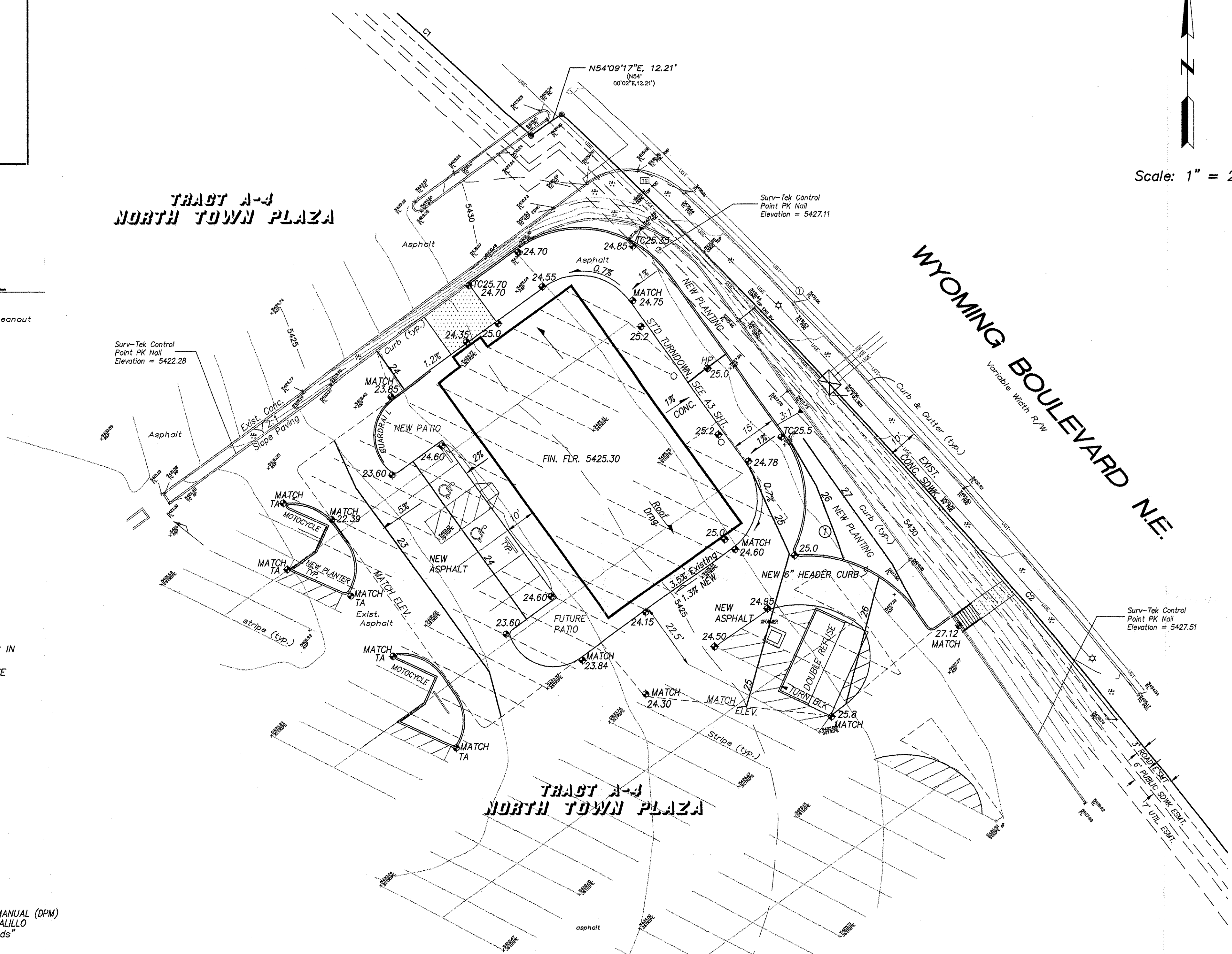
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

FOR SITE RUNOFF CALCULATIONS REFER TO GRADING & DRAINAGE PLAN FOR NORTH TOWN PLAZA, 1992 ON FILE COA E-19 / DOXX

NET CHANGE IN DISCHARGE FROM THE EXISTING PLAN AND THIS PLAN = - 0.07 CFS (DECREASE)

DUE TO NEW PLANTING EAST OF DRIVE-THRU LANE. VOL. DECREASE = 178 OF (2000 SF±)

TRACT A-4
NORTH TOWN PLAZA



VICINITY MAP ZONE E-19

NOTES

1. 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.
2. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
3. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1011, NATIVE SEED MIX.
4. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL TO 1 VERTICAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

① REMOVE EXISTING ASPHALT

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 TC
- FLOWLINE FL
- EXISTING POWER POLE
- FACE OF CURB/FACE OF CURB F-F
- WATER BLOCK

PROJECT DATA

LEGAL DESCRIPTION

A PORTION OF TRACT A-4, NORTH TOWN PLAZA, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO (REPLATED 6.27.1995)

PROJECT BENCHMARK

TOP OF PK NAIL(S) AT THE PROJECT SITE NORTHEAST CORNER MSL ELEVATION = 5427.11, AS TIED FROM COA 1-3/4" DIAMETER BRASS DISK SET IN CONCRETE, 2 F19, LOCATED AT THE NW INTERSECTION OF TORREON AND ACADEMY RD.

TOPOGRAPHIC SURVEY

PERFORMED BY SURV-TEK, DATED MAY 2012.

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

Philip W. Clark
Professional Engineer
6.1.12

RECEIVED
JUN 1 - 2012
HYDROLOGY SECTION

Clark Consulting Engineers	
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Tel: (505) 281-2444 Fax: (505) 281-2444	
DATE	REVISION
	A PORTION OF TR. A-4, NORTH TOWN PLAZA WYOMING & ACADEMY ALBUQUERQUE
NORTH TOWN PLAZA RESTAURANT	
Grading & Drainage Plan	
DESIGNED BY: PWC	DRAWN BY: CCE
CHECKED BY: PWC	DATE: 5/28/12
JOB #: N TOWN PL	FILE #: G/D
1 OF 1	