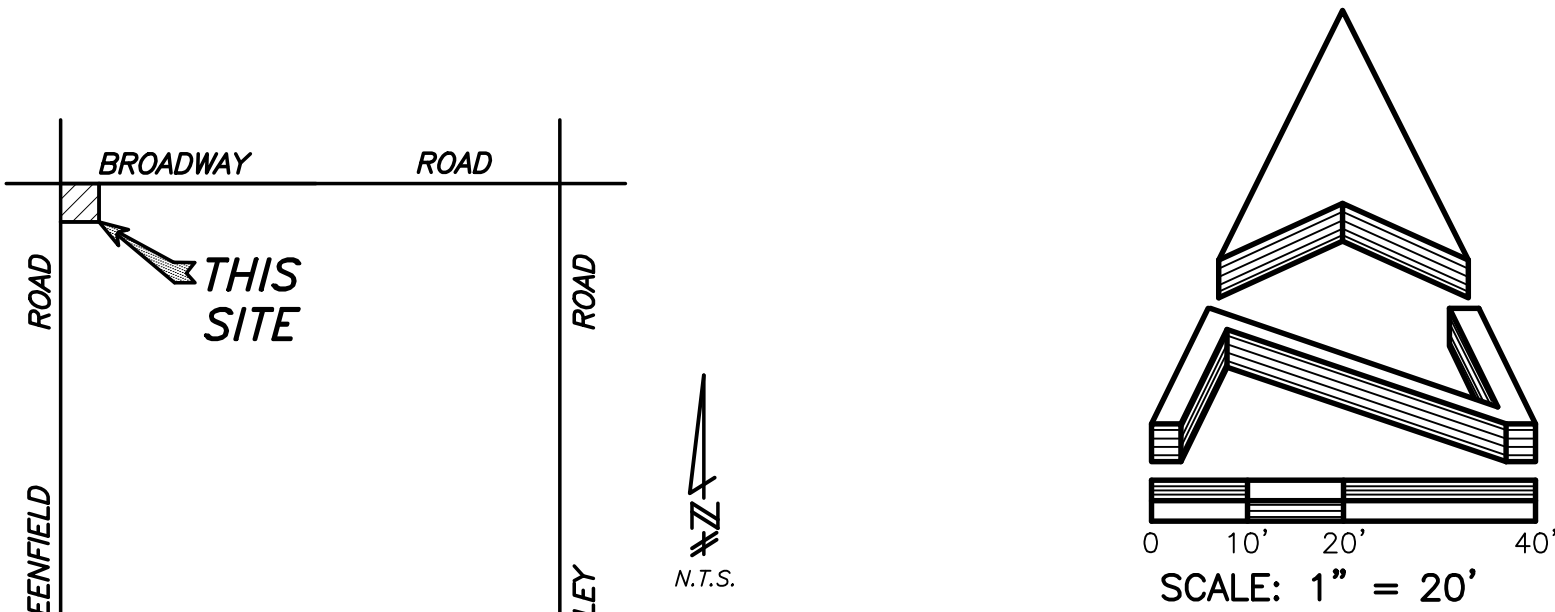
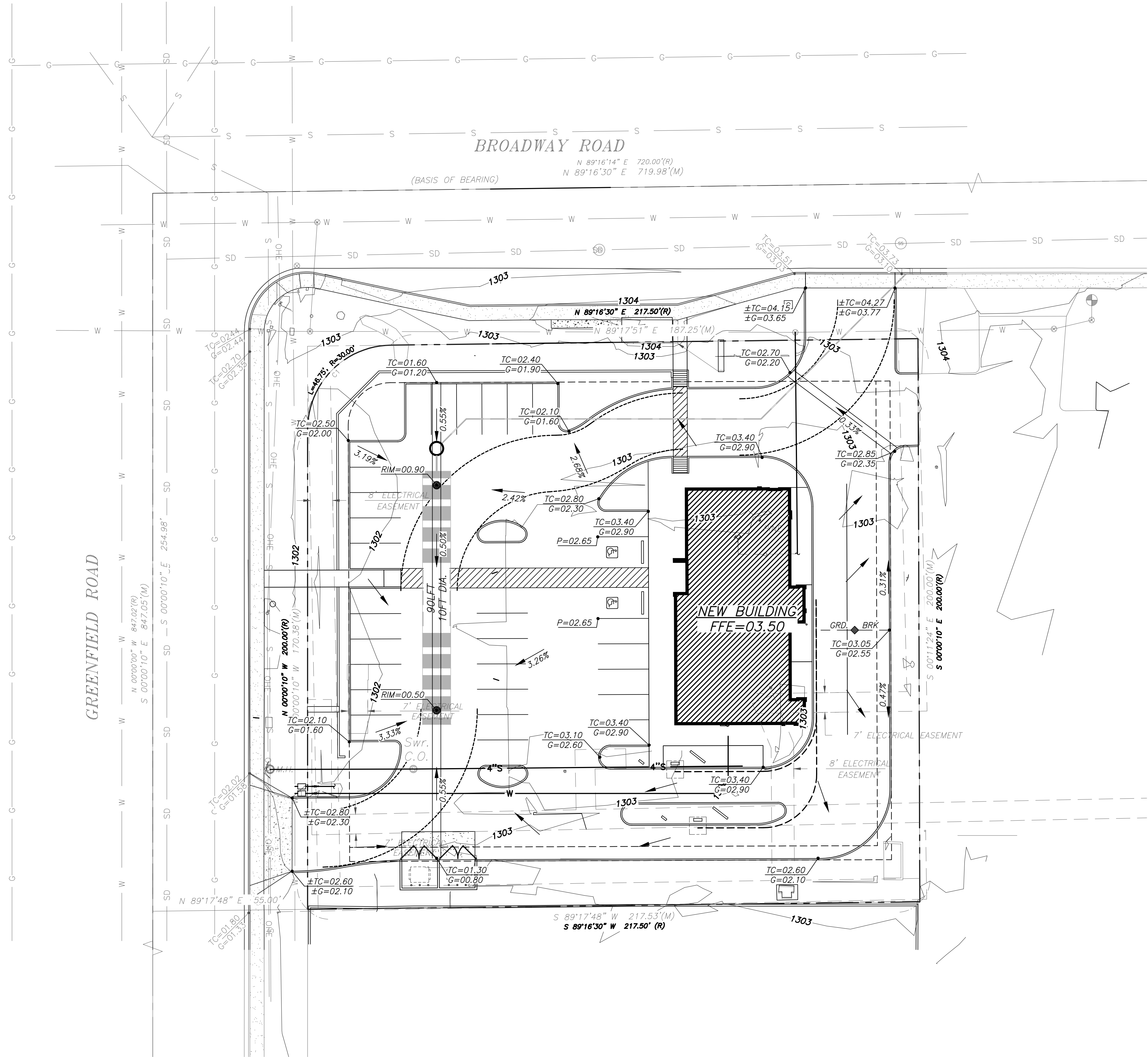


PRELIMINARY GRADING AND DRAINAGE
FOR
BURGER KING MESA, ARIZONA



Architect

SKETCH ARCHITECTURE COMPANY
2454 E. SOUTHERN AVENUE, #110
MESA, ARIZONA 85204
PHONE: (480) 668-8015
Contact: Mr. Randy Carter

Vicinity Map

Required Retention

BK Weighted Run-off Coefficient

Surface	C'	Area (A)	C'A (ft ²)
Roof	0.95	3,774	3,585
Asphalt Pavement	0.85	24,712	21,006
Concrete/Sidewalk	0.95	4,102	3,897
Desert L.S. (No Impervious Liner)	0.70	10,664	7,465
Totals		43,251 ft ²	35,953 ft ²

0.83

Required Retention Volume

Design Storm: 100-yr, 2-hr; d= 2.15"/12"	0.179
(per NOAA Atlas 14 Point Precipitation Frequency Estimates)	
Onsite Area	43,251 ft ²
$V_{req}(100 \text{ yr}, 2 \text{ hr}) = C \times d \times A = [0.83 \times 0.179 \times 43,251] =$	6,426 ft ³

Sub-surface Designed Retention

Reqd. Volume = 6,426 ft³

120-inch Diameter Perforated C.M.P. Reservoir

Pipe Diameter =	10 ft.
Barrel Length =	90 ft.
Unit Volume =	78.54 ft ³
Reservoir Volume Prov. =	7,069 ft ³

Areas:

EXHIBIT 'A'
NET AREA: 0.993 Ac. (43,251 S.F.±)
(Excludes R/W Greenfield and Broadway roads)

Benchmark

BENCHMARK LOCATED AT THE NORTHEAST CORNER OF 48TH STREET AND BROADWAY ROAD PER CITY OF MESA BENCHMARK DATA, ELEVATION 1317.84', NAD 83. FOUND NAIL WITHOUT TAG.

FEMA Flood Zone:

THIS SITE IS LOCATED IN FLOOD ZONE 'X' AS DESIGNATED IN FEMA FLOOD MAP# 04013C2290M, DATED NOVEMBER 4, 2015. ZONE 'X' IS DEFINED AS: "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS 1.0% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH AREAS LESS THAN 1 SQUARE MILE; AREAS PROTECTED BY LEVEES FROM 1.0% FLOOD CHANCE."

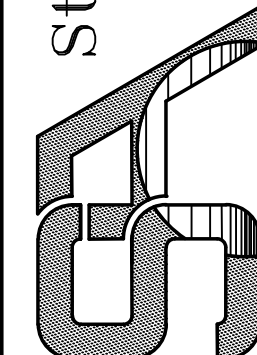


REVISIONS:

BURGER KING
4403 E BROADWAY RD
MESA 85206



Standage & Associates, Ltd.
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409 S. El Dorado
Mesa, Arizona 85202
(480) 892-8090



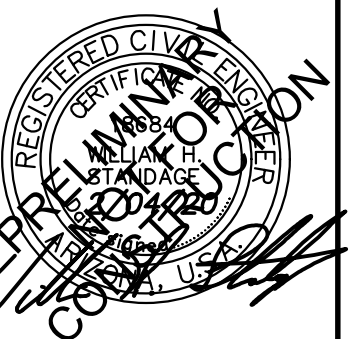
SHEET: 1 PG1
OF: 1
PROJECT No.: 200005
SCALE: 1"=20'
PREPARED: JRG/WHs

The site plan on the left shows the proposed development (shaded area) located at the intersection of Broadway and Road. The site is bounded by Road to the north, Road to the east, and Greenfield to the south. A north arrow points towards the top right, labeled 'N.T.S.'. The 3D rendering on the right shows a triangular building with a gabled roof and a small square structure attached to the side. A scale bar indicates 0, 10', 20', and 40' feet. Below the scale bar, the text 'SCALE: 1" = 20'' is written.

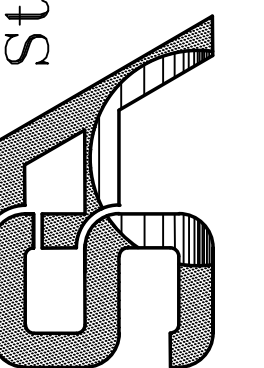
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01/06/2014

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