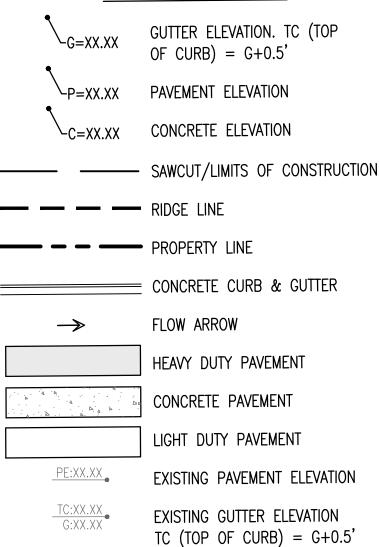
BENCHMARK:

BENCHMARK IS A BRASS TAG ON TOP OF CURB LOCATED AT THE SW CORNER OF THE INTERSECTION OF MESA DRIVE AND UNIVERSITY DRIVE. ELEVATION = 1242.68' NAVD 88 (CITY OF MESA DATUM)

BASIS OF BEARING:

THE BASIS OF BEARING AND ALL MONUMENTATION SHOWN HEREON IS BASED ON THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 1 NORTH, RANGE 5 EAST, USING A BEARING OF SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, AS SHOWN ON THE FINAL PLAT OF FITCH PLAZA, RECORDED IN BOOK 266, PAGE 38, MARICOPA COUNTY RECORDS.

PROPOSED LEGEND:



DRAINAGE STATEMENT:

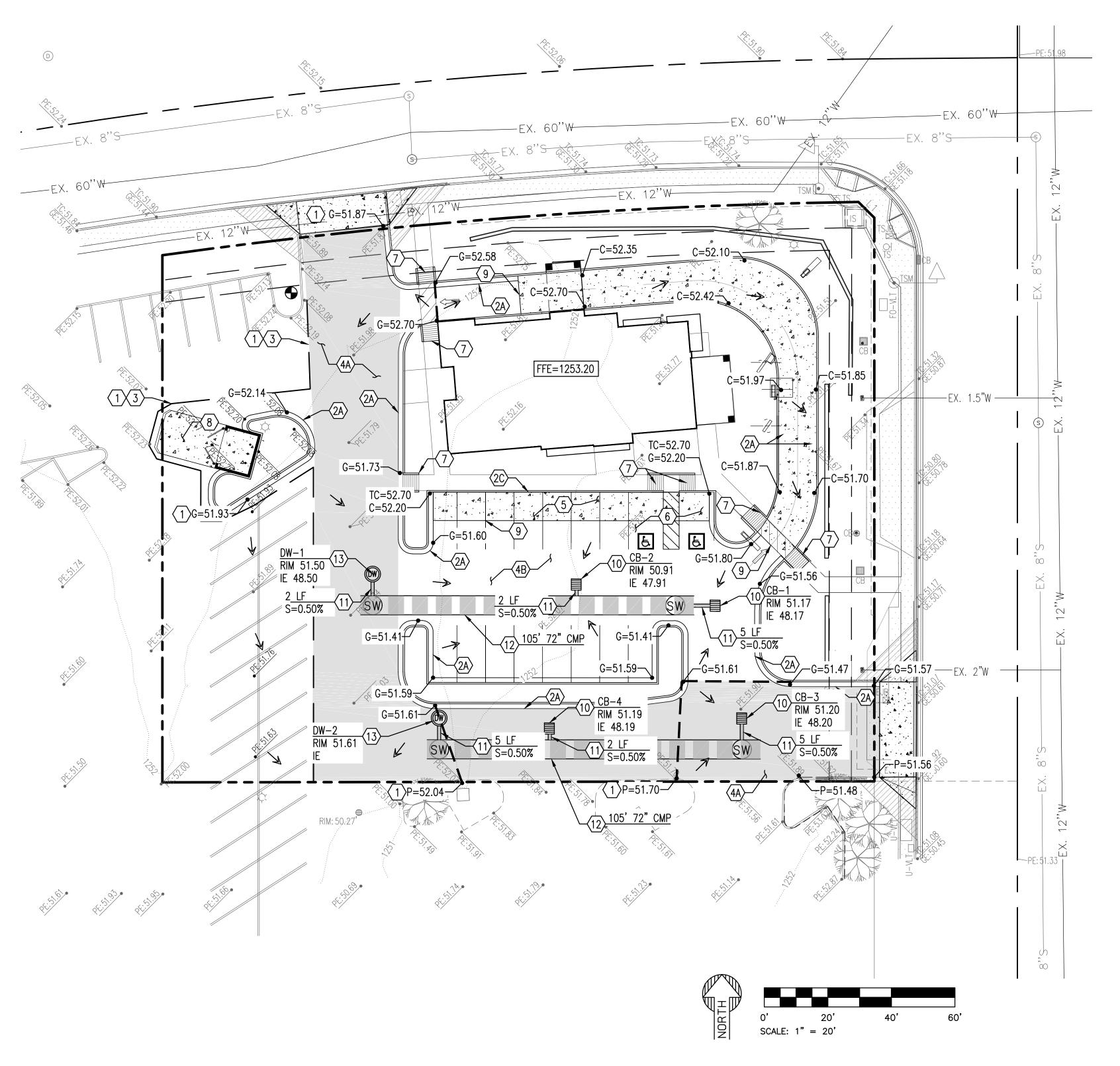
THE PROJECT PROPERTY CONSISTS OF A SINGLE PARCEL LOT OF LAND WHICH IS A PORTION OF THE NORTH-EAST ONE-QUARTER OF SECTION 15, TOWNSHIP 1 NORTH, RANGE 5 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, MESA, ARIZONA. THE BURGER KING DRIVE THRU HAS AN APPROXIMATE AREA OF 0.908 ACRES LOCATED ON 353 E. BROWN ROAD.

PER FIRM MAP NUMBER 04013C2265M DATED 11/04/2015, THIS SITE IS DESIGNATED AS ZONE X WHICH IS FURTHER DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND THEREFOR IS NOT IN A SPECIAL FLOOD HAZARD AREA.

PER THE CITY OF MESA, THE REQUIRED STORM WATER STORAGE VOLUME IS V=C*P/12*A FOR A 100-YEAR, TWO-HOUR STORM EVENT. A C VALUE OF 0.95 WAS TAKEN FOR CONCRETE, 0.85 FOR ASPHALT AND 0.5 FOR LANDSCAPE AREAS, WHERE THE CW WAS COMPUTED TO BE AROUND 0.82. A RAINFALL DEPTH (P) OF 2.16 INCHES IS USED FOR VOLUME CALCULATIONS.

SINCE THIS IS A DEVELOPED LAND, EXISTING STORM WATER DRAINAGE SYSTEMS MUST BE IDENTIFIED AND UTILIZED IF APPLICABLE.

THE TOTAL DRAINAGE AREA IS APPROXIMATELY 0.91 AC. THEREFORE, THE REQUIRED VOLUME (V) IS EQUIVALENT TO V = (0.82*2.16/12*0.91)= 0.13 AC-FT=5,841 CF. ANY RETENTION SYSTEM MUST DRAIN ANY STORM EVENT UP TO AND INCLUDING THE 100-YEAR 2-HOUR STORM WITHIN 36 HOURS.



BURGER KING PRELIMINARY GRADING AND DRAINAGE PLAN 353 E. BROWN RD MESA, AZ 85201

