

**FLOODZONE**  
 ACCORDING TO THE FLOOD INSURANCE RATE MAP #04013C2265 M, DATED NOVEMBER 04, 2015, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X". AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

**BASIS OF BEARING**  
 THE BASIS OF BEARING FOR THIS SURVEY IS THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 32, TOWNSHIP 1 NORTH, RANGE 5 EAST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA. SAID LINE BEARS N89°51'21"E.

**BENCHMARK**  
 A BRASS TAG ON THE NORTHEAST CURB RETURN AT THE INTERSECTION OF DOBSON AND SOUTHERN CITY OF MESA ELEVATION = 1201.84' (NAVD88 DATUM)

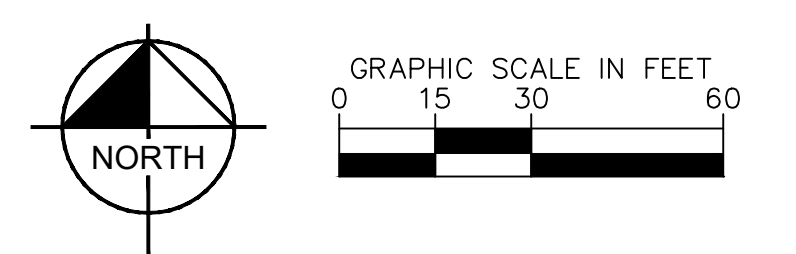
- DRAINAGE NOTES**
- ① EXISTING CATCH BASIN, INVERT PER PLAN.
  - ② EXISTING 12" STORM DRAIN, LENGTH AND SLOPE PER PLAN.

- NOTES**
1. ADD 0.5' TO PAVEMENT (P) ELEVATIONS TO OBTAIN TOP OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED.
  2. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), MATCH EXISTING (ME), OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.
  3. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
  4. ALL SIDEWALK RAMPS SHALL HAVE A MAX 6" RISE AT 1:12 MAX.
  5. REFER TO UTILITY PLAN FOR UNDERGROUND UTILITIES.
  6. ALL GRADES ARE PAVEMENT GRADES UNLESS OTHERWISE NOTED ON PLANS, ALL GRADES ARE PLUS 1200.
  7. ADD 1200 TO ALL SPOT ELEVATIONS.
  8. SIDEWALKS AND ADA CROSSWALKS TO HAVE A MINIMUM CROSS SLOPE OF 2% AND A 5% MAXIMUM LONGITUDINAL SLOPE PER ADA CODE.
  9. ALL CUT/FILL SLOPES 4:1 MAX UNLESS OTHERWISE NOTED.
  10. ROOF DRAINS TO SPLASH TO GRADE. ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING. UTILIZE SCUPPERS AS NEEDED AT SIDEWALK CROSSINGS.

**LEGEND**

	PROPERTY LINE
	EASEMENT LINE
	SAWCUT LINE
	PROPOSED HIGH POINT
	EXISTING STORM DRAIN
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED FLOW ARROW
	PROPOSED PAVEMENT SPOT ELEVATION
	EXISTING GRADE ELEVATION
	FINISHED FLOOR
	EXISTING GRADE
	MATCH EXISTING
	PAVEMENT
	SIDEWALK
	CONCRETE
	FLOW LINE

**DRAINAGE STATEMENT**  
 THE EXISTING SITE IS FULLY DEVELOPED WITH STORMWATER MANAGEMENT PROVIDED BY MEANS OF EXISTING CATCH BASINS AND STORM DRAINS WHICH OUTFALL TO THE EXISTING STORM DRAIN SYSTEM WITHIN THE FIESTA LOOP ROAD TO THE SOUTH. THE ULTIMATE OUTFALL IS TO AN EXISTING PRIVATE RETENTION BASIN LOCATED AT THE SWC OF THE MALL. THE ADDITION OF A VALLEY GUTTER WILL BE USED TO PROVIDE FOR ADEQUATE DRAINAGE DESIGN INTO THE EXISTING SYSTEM FOR THE FIESTA MALL. THE PROPOSED DRAINAGE DESIGN WILL BE DESIGNED TO ACCOMMODATE THE 100-YEAR STORM PER CITY OF MESA DRAINAGE DESIGN GUIDELINES.



**Kimley»Horn** © 2023  
 1001 W Southern Ave, Suite 131  
 Mesa, Arizona 85210 (480) 207-2666

MESA MERCADO  
 PRELIMINARY GRADING & DRAINAGE PLAN  
 1235 S LONGMORE  
 MESA, AZ 85202

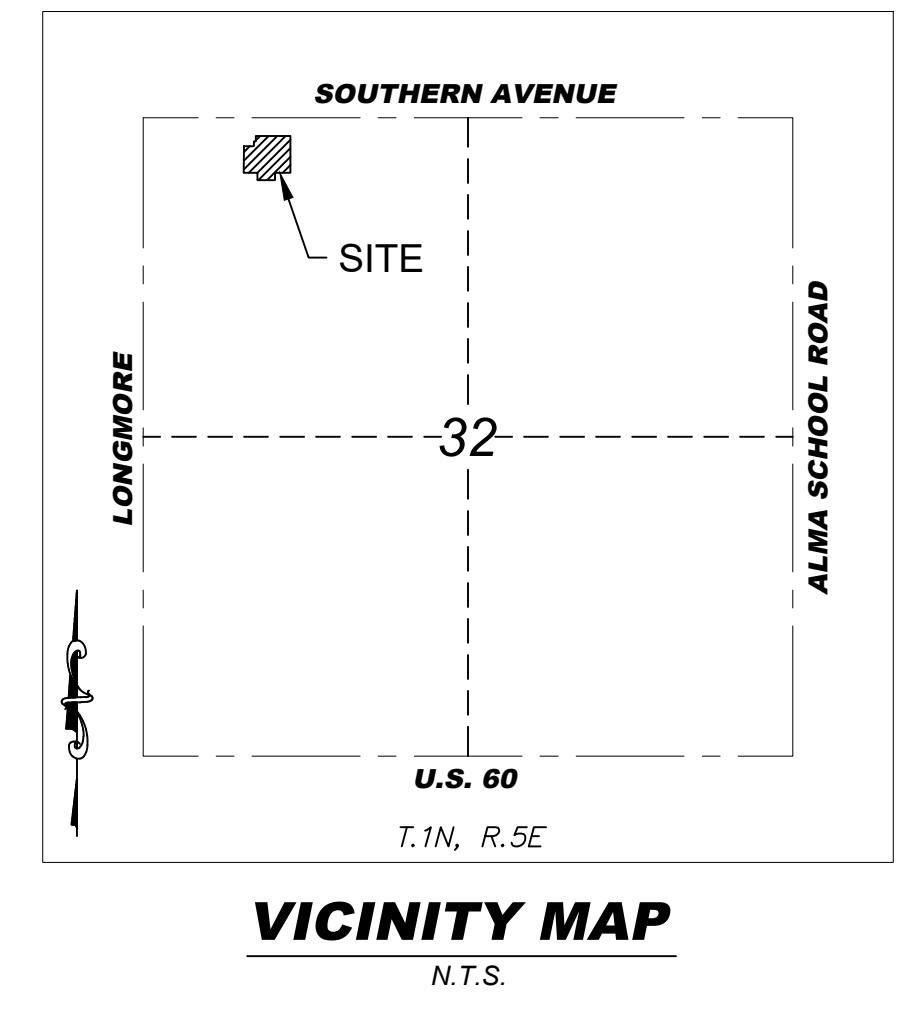
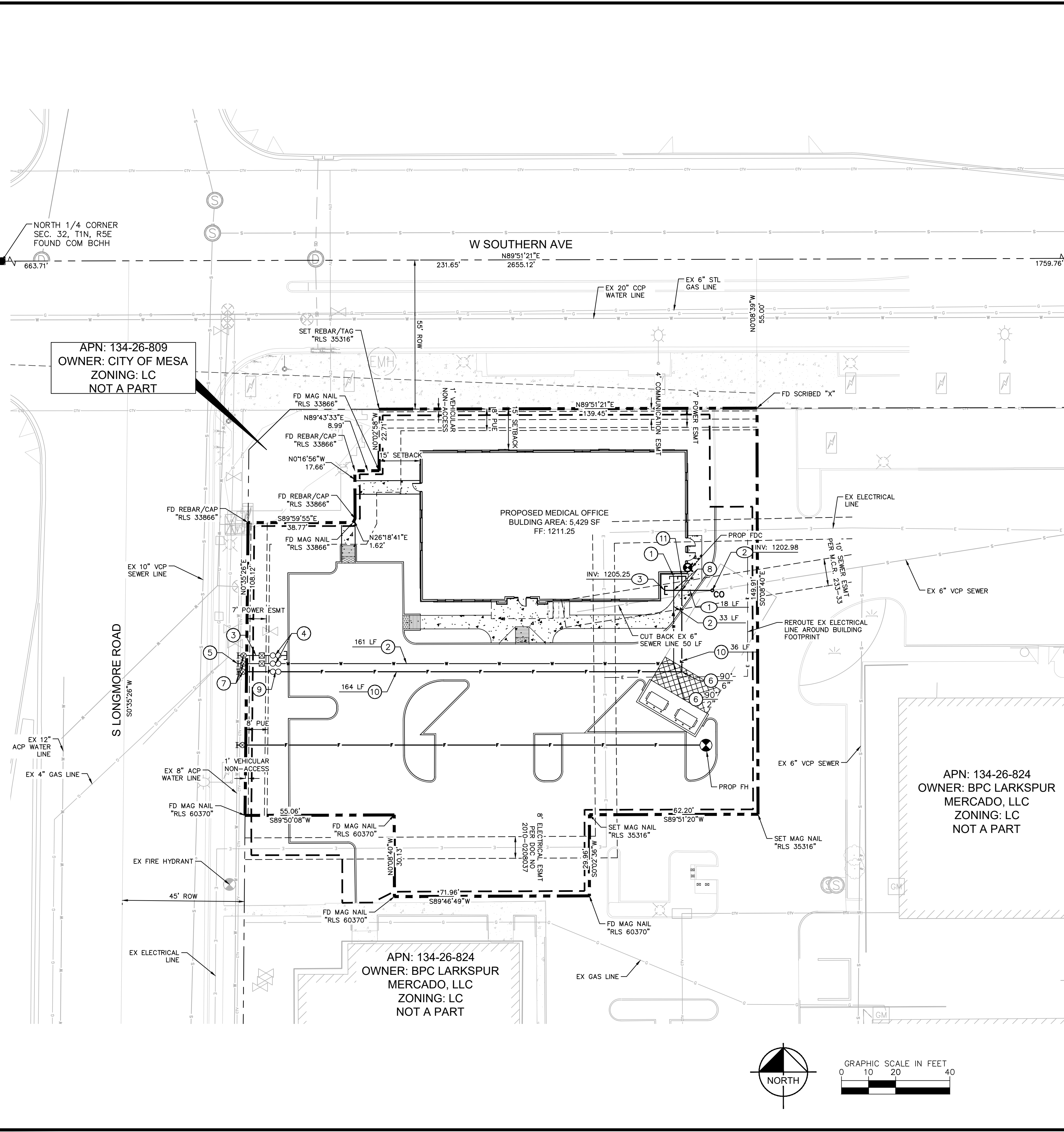
PROJECT No.  
 291844000

SCALE (H): 1"=30'  
 SCALE (V): ---  
 DRAWN BY: SJB  
 DESIGN BY: SJB/HDR  
 CHECK BY: HDR  
 DATE: 04/14/2023

Heather Roberts  
 Registered Professional Engineer  
 No. 47693  
 Arizona License  
 Exp. Date 03/31/26

C-2  
 02 OF 03 SHEETS

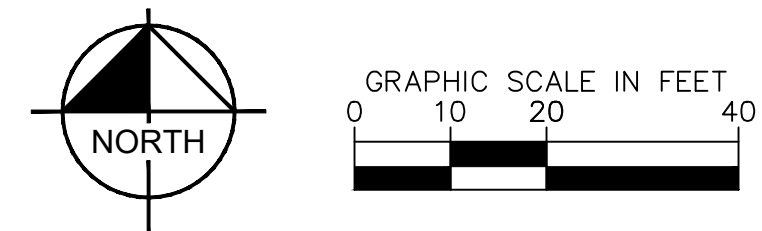
REV	DESCRIPTION	BY	DATE	APPR



- LEGEND**
- F — PROPOSED FIRE LINE
  - S — PROPOSED SANITARY SEWER
  - W — PROPOSED WATER LINE
  - S — EXISTING SANITARY SEWER
  - W — EXISTING WATER LINE
  - G — EXISTING GAS LINE
  - CTV — EXISTING CABLE TV LINE
  - COM — EXISTING TELECOMM LINE
  - SD — EXISTING STORMDRAIN
  - — CENTER LINE
  - — PROPERTY LINE
  - — EXISTING RIGHT-OF-WAY LINE

- WATER NOTES**
- 1 BUILDING DOMESTIC WATER CONNECTION, REF MEP PLANS FOR CONTINUATION.
  - 2 INSTALL 2" SCH 40 PVC DOMESTIC WATER SERVICE, LENGTH PER PLAN. BEDDING AND BACKFILL PER COM STD DET M-19.05.
  - 3 INSTALL 1" IRRIGATION SERVICE AND AND METER.
  - 4 INSTALL RPPA BACKFLOW PREVENTOR PER COM STD DETAIL M-31.03.
  - 5 INSTALL 2" DOMESTIC WATER SERVICE CONNECTION PER COM STD DET M-29.
  - 6 INSTALL BEND WITH RESTRAINED JOINTS PER MAG STD DET 303 . ANGLE AND SIZE SPECIFIED PER PLAN.
  - 7 INSTALL GATE VALVE.
  - 8 WATER SERVICE UTILITY CROSSING MINIMUM 2' VERTICAL SEPARATION. REALIGN PER MAG STD DET 370 AND 381 IF NECESSARY.
  - 9 INSTALL 6" REDUCED PRESSURE BACKFLOW PREVENTOR PER COM STD DET M-31.01. CONTRACTOR SHALL MAINTAIN AN UNOBSTRUCTED RADIUS OF NO LESS THAN THREE FEET FROM THE OUTER PERIMETER OF THE BACKFLOW PREVENTOR.
  - 10 INSTALL 6" PRESSURE CLASS 350 DIP PRIVATE FIRE LINE, CEMENT MORTAR LINED PER COM STD DET 31.07 AND MAG SPEC 750 WITH POLYETHYLENE AND CORROSION PROTECTION PER MAG SPEC 610.5, LENGTH PER PLAN. BEDDING AND BACKFILL PER COM STD DET M-19.05.
  - 11 FIRELINE BUILDING ENTRY, REF MEP/FIRE PROTECTION PLANS FOR CONTINUATION.
  - 12 INSTALL 6" FIRE LINE CONNECTION PER COM STD DET M-29.

- SEWER NOTES**
- 1 INSTALL 6" SDR 35 VCP SEWER SERVICE WITH TRACER WIRE, LENGTH PER PLAN.
  - 2 INSTALL SEWER CLEANOUT PER MAG STD DET 441, WITH GAS/WATERTIGHT CONNECTIONS PER IPC 2018. INVERT PER PLAN.
  - 3 CONNECT TO BUILDING SEWER AT TWO-WAY CLEANOUT REF MEP PLANS FOR CONTINUATION. INVERT PER PLAN.



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MESA MERCADO  
 PRELIMINARY UTILITY PLAN  
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 MESA, AZ 85202

PROJECT No.  
291844000  
 SCALE (H): 1"=20'  
 SCALE (V): ---  
 DRAWN BY: SJB  
 DESIGN BY: SJB/HDR  
 CHECK BY: HDR  
 DATE: 04/14/2023

