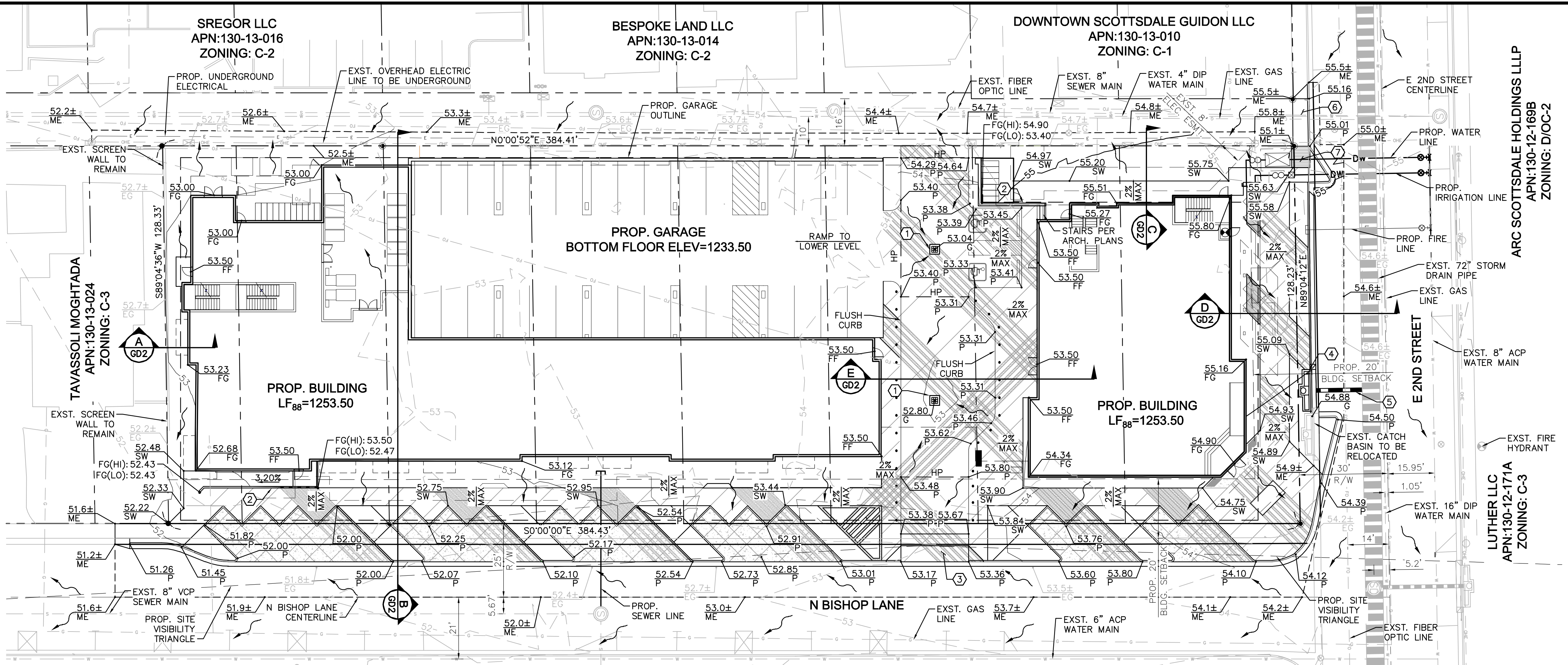


REV	DESCRIPTION	DATE	BY	APP



**Kimley»Horn**  
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 Phoenix, Arizona 85020 (602) 944-5500



SWC N BISHOP LANE AND E 2ND STREET  
**PRELIMINARY GRADING AND DRAINAGE PLAN**  
 SCOTTSDALE, ARIZONA

PROJECT No. 291347001  
 SCALE (H): 1"=20'  
 SCALE (V): NONE  
 DRAWN BY: CHS  
 DESIGN BY: CHS  
 CHECK BY: EAW  
 DATE: 09/17/19

**PRELIMINARY**  
 FOR REVIEW ONLY  
 NOT FOR CONSTRUCTION  
**Kimley»Horn**  
 ENGINEER E. WHITEHURST  
 PE NO. 52765, DATE 09/19  
 347001Pre-GD.dwg  
**GD1**  
 1 OF 2 SHEETS

COS PROJECT # 890-PA-2018  
 C.S.: 16-44

K:\PHK\_Civil\291347001 - 2nd St & Bishop\_CADD\347001Pre-GD.dwg, Layout:GD1, Sep 17, 2019 - 1:30pm Connor Sperry  
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**FLOOD INFORMATION**  
 ACCORDING TO THE FLOOD INSURANCE RATE MAP #04013C2235L DATED OCTOBER 16, 2013 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 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

**BENCHMARK**  
 FOUND 3" CITY OF SCOTTSDALE BRASS CAP IN HANDHOLE AT THE INTERSECTION OF OSBORN ROAD AND SCOTTSDALE ROAD.

**BASIS OF BEARING**  
 THE CENTERLINE OF 2ND STREET AS IN BOOK 32, PAGE 50, MARICOPA COUNTY RECORDS. SAID LINE BEARS N89°03'00"E.

GDACS DATA  
 NAVD88  
 ELEVATION = 1246.52'

**LEGEND**

---	PROPERTY LINE
---	RIGHT OF WAY LINE
---	STREET CENTERLINE
---	EASEMENT LINE
S	EXISTING SEWER MAIN
W	EXISTING PUBLIC WATER MAIN
W	PROPOSED WATER MAIN
S	PROPOSED SEWER MAIN
---	PROPOSED STORM DRAIN
---	EXISTING STORM DRAIN
HP	HIGH POINT
12	PROPOSED CONTOUR
2	EXISTING CONTOURS
---	PROPOSED PAVEMENT SPOT ELEVATION
---	EXISTING SPOT ELEVATION
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING FIRE HYDRANT
---	PROPOSED FIRE HYDRANT
---	PROPOSED CATCH BASIN
---	SURFACE FLOW DIRECTION

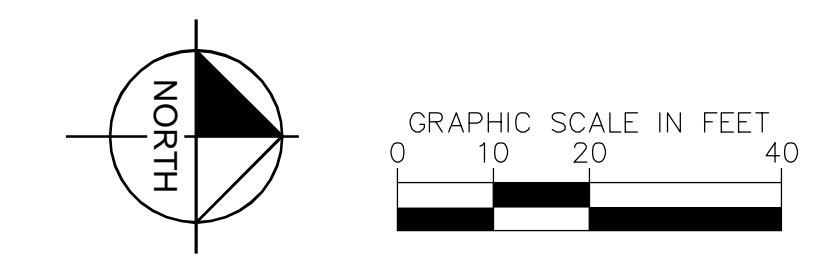
**STORMWATER NOTE**  
 PER CONVERSATION WITH RICHARD ANDERSON, P.E., CFM, CITY OF SCOTTSDALE WILL NOT REQUIRE ONSITE STORMWATER RETENTION/DETENTION. DUE TO SITE ACREAGE, ROOF AREA COVERAGE, AND LIMITED SITE EXPOSURE, ROOF DRAINAGE WILL BE COLLECTED INTERNALLY AND DISCHARGED TO ADJACENT PUBLIC RIGHT OF WAY ALONG HISTORICAL PATTERNS.

**FLOOD INFORMATION**  
 THE FLOOD ZONE DESIGNATION FOR THIS AREA IS ZONE X. DEFINED AS: 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. MAP NUMBER 04013C2235L, REVISED OCTOBER 16, 2013.

COMMUNITY NUMBER	COUNTY NUMBER	PANEL #	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEVATION (IN AO ZONE USE DEPTH)
045012	04013C	2235	L	OCTOBER 16, 2013	X	N/A

**ENGINEER'S CERTIFICATION:**  
 THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ON THIS PLAN ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A 100-YEAR STORM, AND ARE IN ACCORDANCE WITH SCOTTSDALE REVISED CODE, CHAPTER 37 - FLOODPLAIN AND STORMWATER REGULATION.

- GRADING AND DRAINAGE NOTES**
- GARAGE DECK AREA DRAIN.
  - RETAINING WALL.
  - DRIVEWAY ENTRANCE PER COS STD DET 2250.
  - CATCH BASIN.
  - STORM DRAIN PIPE.
  - RECONSTRUCT DRIVEWAY ENTRANCE TO PROVIDE ADA ACCESS TO THE SITE.
  - CURB RAMP.



- NOTES**
- ADD 1200' TO ALL ELEVATIONS.
  - ADD 0.5' TO PAVEMENT (P) ELEVATIONS TO OBTAIN TOP OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED.



