





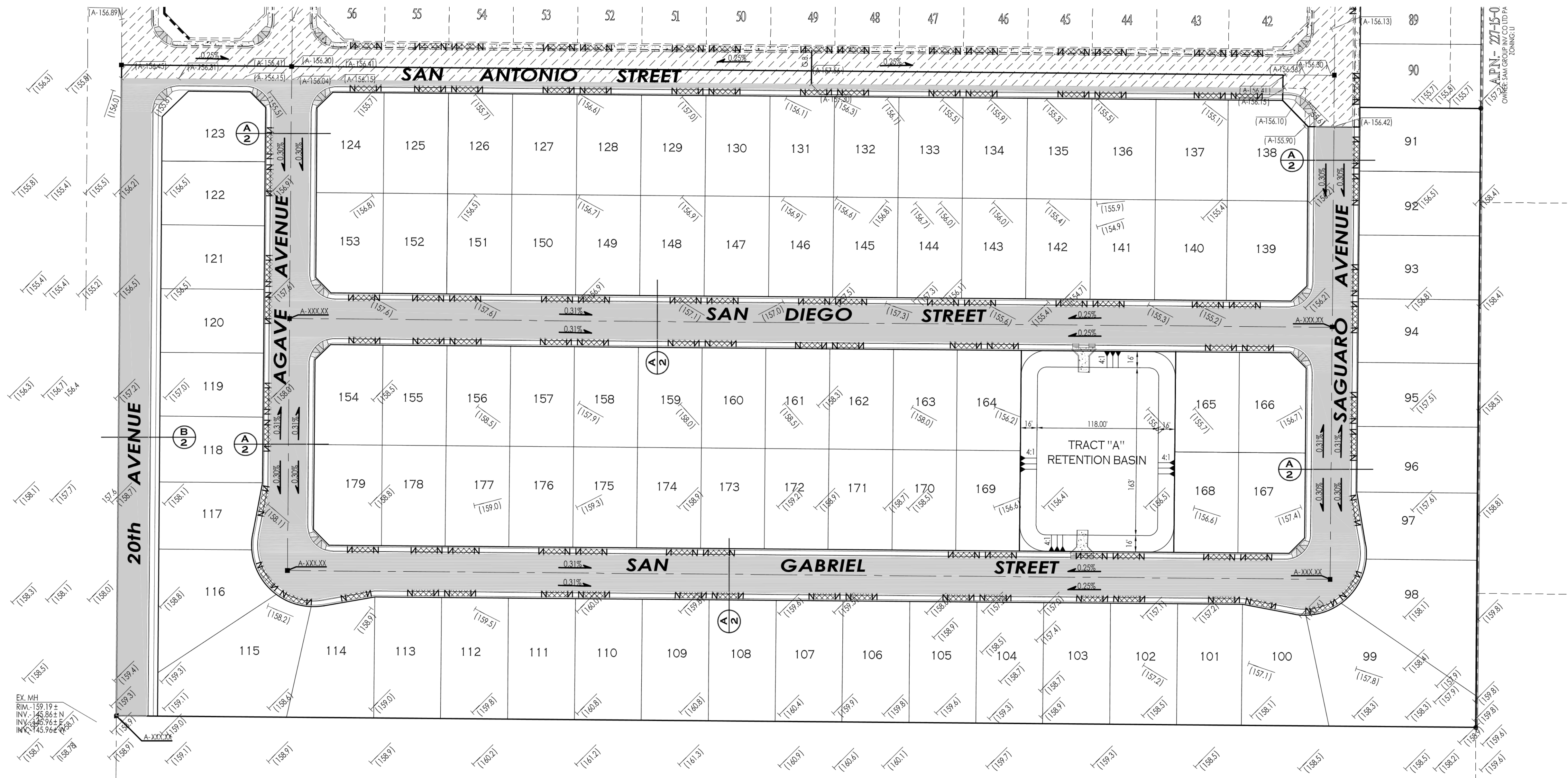
SCALE: 1"=60'

**LEGEND**

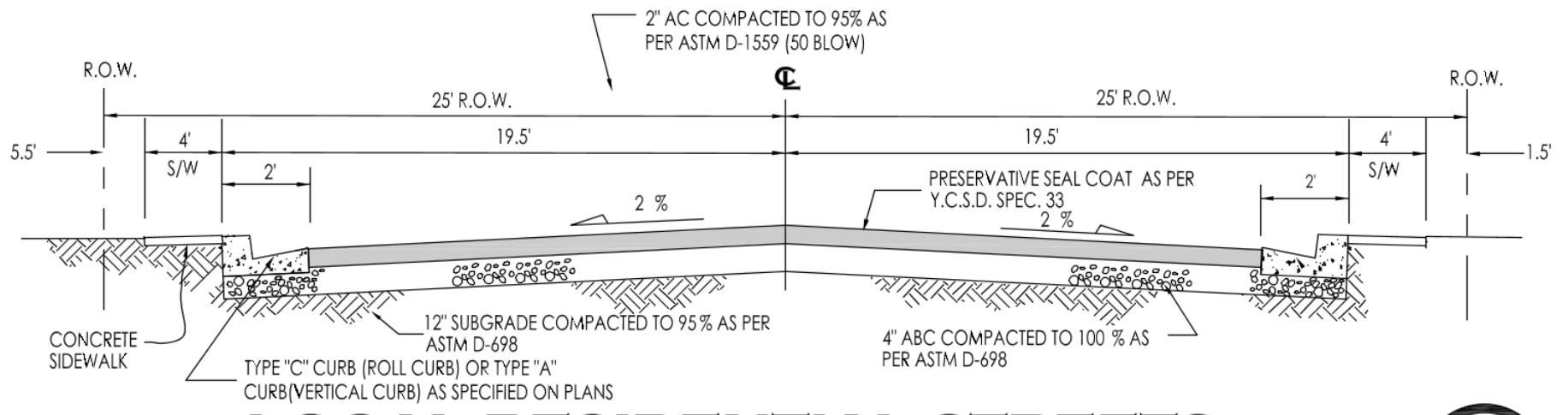
- INDICATES EX. ASPHALT PAVEMENT
- INDICATES EX. CONCRETE
- INDICATES BOUNDARY LINE
- INDICATES CENTERLINE
- INDICATES RIGHT-OF-WAY LINE
- INDICATES EX. FENCE
- INDICATES EX. CMU WALL
- INDICATES EX. ELECTRICAL OVERHEAD LINE
- INDICATES EX. WATER LINE
- INDICATES EX. SEWER LINE
- INDICATES EX. GAS LINE
- INDICATES NEW ASPHALT PAVEMENT
- INDICATES NEW CONCRETE
- INDICATES NEW CMU WALL
- INDICATES EXISTING CMU WALL
- NEW YUMA COUNTY STD. DETAIL No. 4-030 SUBD BOUNDARY MONUMENT
- NEW YUMA COUNTY STD. DETAIL No. 4-080 STREET MONUMENT
- EXISTING MONUMENT (TYPE AS SHOWN)
- INDICATES BRASS CAP
- INDICATES YUMA COUNTY RECORDERS
- INDICATES EXISTING POWER POLE
- INDICATES CALCULATED DATA
- INDICATES MEASURED DATA
- INDICATES EXISTING ELECTRICAL BOX
- INDICATES EXISTING JUNCTION BOX
- INDICATES EXISTING TRANSFORMER
- INDICATES EXISTING POLE
- INDICATES EXISTING GAS METER
- INDICATES EXISTING POWER POLE
- INDICATES EXISTING GUY WIRE
- INDICATES EXISTING STREET SIGN
- INDICATES EXISTING MANHOLE
- INDICATES EXISTING FIRE HYDRANT
- INDICATES EXISTING WATER METER
- INDICATES EXISTING WATER VALVE
- INDICATES EX. CURB ELEVATION
- INDICATES EX. SIDEWALK ELEVATION
- INDICATES EX. ASPHALT ELEVATION
- INDICATES EX. NATURAL SOIL ELEVATION
- INDICATES NEW ASPHALT ELEVATION

**BENCHMARK**

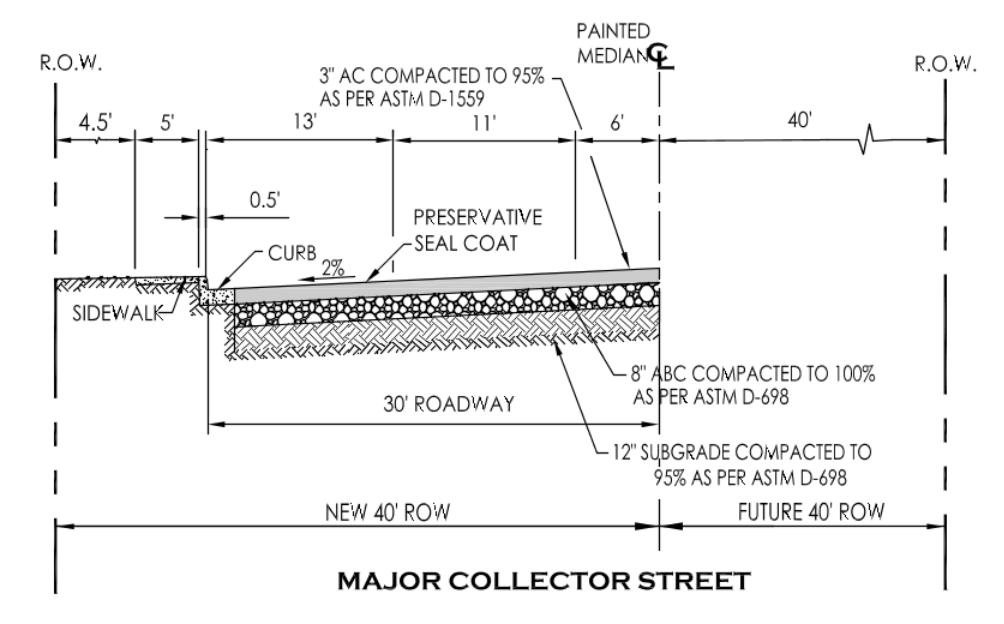
TOP OF BRASSCAP LOCATED AT THE INTERSECTION OF AVENUE 'E' AND CO. 24th 'S' STREET. THIS POINT ALSO BEING THE E 1/4 CORNER OF SECTION 15, T11S, R24W, G.A.S.P. 8.B.M.  
ELEVATION: 159.50 FEET



EX. MH  
RIM-159.19 ±  
INV.-145.86 ± N  
INV.-145.96 ± E  
INV.-145.96 ± (28.7)



**LOCAL RESIDENTIAL STREETS**



**MAJOR COLLECTOR ST**

**DRAINAGE REPORT**

1- DRAINAGE REPORT  
DRAINAGE AREA  
USING THE RATIONAL METHOD  
Q= CIA = PEAK RUNOFF [VOL.]  
(C) PEAK RATE RUNOFF = 0.43  
(I) INTENSITY OF RAINFALL = 1.22 IN / HR  
(A) DRAINAGE AREA = 21.01 AC  
Q = [0.43](1.22)(21.01) = 11.02 CF  
TOTAL RUNOFF = 7200 (11.02) = 79,344 CF

STORAGE VOLUME PROVIDED  
RETENTION BASIN  
TOP AREA = 29,913 SF  
BOTTOM AREA = 20,108 SF  
DEPTH = 4 FT  
VOL. PROVIDED = (29,913 + 20,108) (4.0) = 100,042 CF  
TOTAL VOL PROVIDED = 100,042 CF  
FACTOR OF SAFETY =  $\frac{100,042 CF}{79,344 CF} = 1.26$

- 2- NO OFFSITE STORMWATER WILL ENTER THE PROJECT SITE STORMWATER WILL BE RETAINED ON SITE.
- 3- THIS PROJECT SITE IS LOCATED IN FLOOD ZONE 'X' AS SHOWN ON FEMA FLOOD MAPS

CALL TWO WORKING DAYS BEFORE YOU DIG  
**1-800-STAKE-IT**

1846 S. 8th AVENUE 928-329-0000 TEL  
YUMA, AZ 85364 928-247-6232 FAX  
V@veganvega.com



Preliminary Paving & Grading Plan  
**BELLEZA DEL DESIERTO**  
PHASE 2 SUBDIVISION

**PRELIMINARY**

Notes:  
Scale: N.T.S. [Date: JAN. 2020]  
Drawn: Staff [Job #: vnv19-950]  
Checked: vna