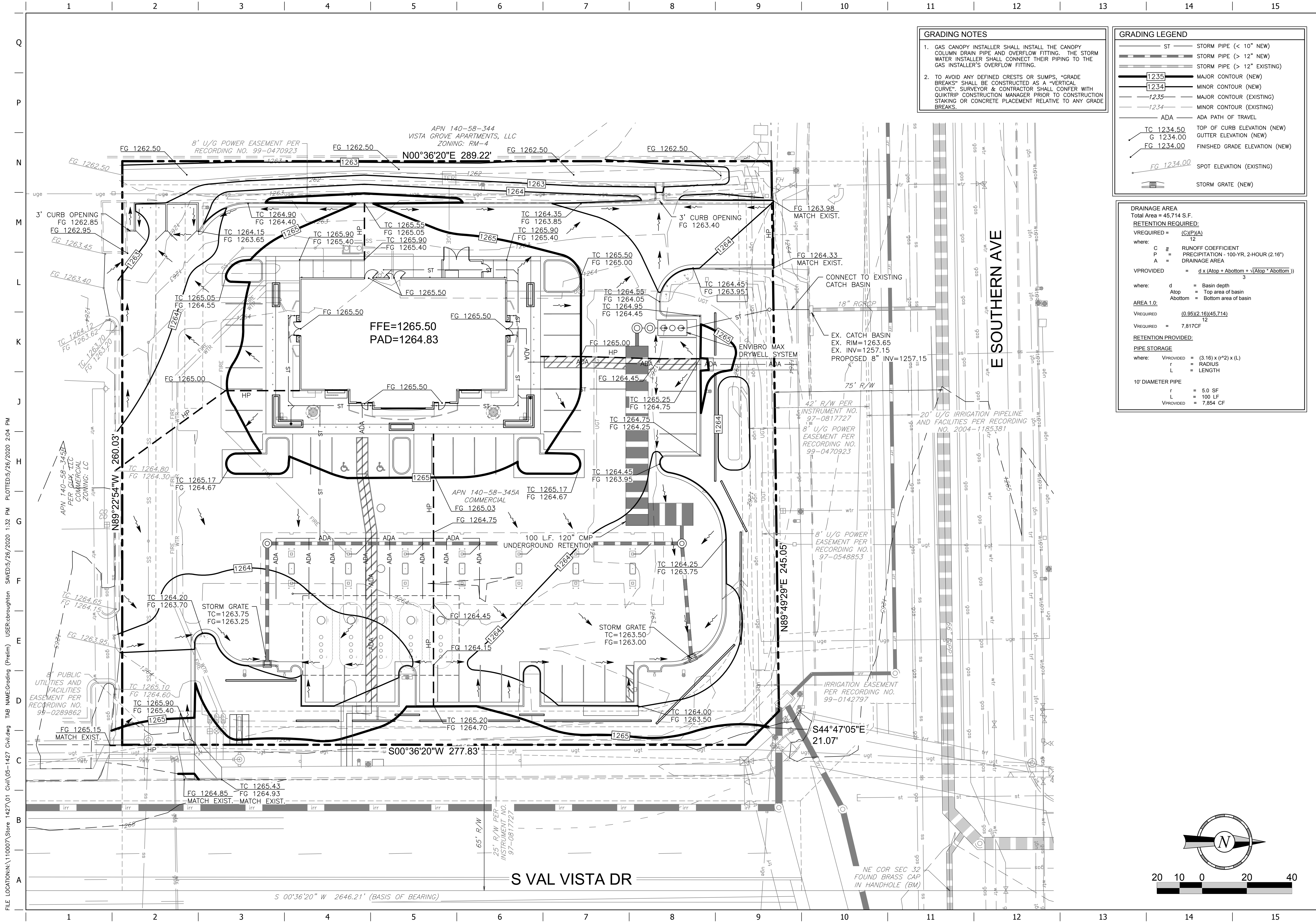




GRADING NOTES

1. GAS CANOPY INSTALLER SHALL INSTALL THE CANOPY COLUMN DRAIN PIPE AND OVERFLOW FITTING. THE STORM WATER INSTALLER SHALL CONNECT THEIR PIPING TO THE GAS INSTALLER'S OVERFLOW FITTING.

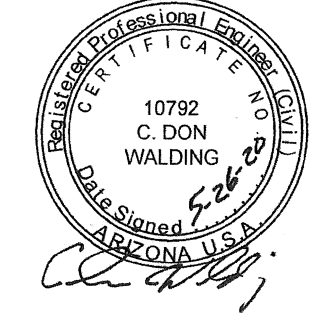
2. TO AVOID ANY DEFINED CRESTS OR SUMPS, "GRADE BREAKS" SHALL BE CONSTRUCTED AS A "VERTICAL CURVE". SURVEYOR & CONTRACTOR SHALL CONFER WITH QUIKTRIP CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION STAKING OR CONCRETE PLACEMENT RELATIVE TO ANY GRADE BREAKS.

GRADING LEGEND

ST STORM PIPE (< 10" NEW)
ST STORM PIPE (> 12" NEW)
ST STORM PIPE (> 12" EXISTING)
1235 MAJOR CONTOUR (NEW)
1234 MINOR CONTOUR (NEW)
1235 MAJOR CONTOUR (EXISTING)
1234 MINOR CONTOUR (EXISTING)
ADA ADA PATH OF TRAVEL
TC 1234.50 TOP OF CURB ELEVATION (NEW)
G 1234.00 GUTTER ELEVATION (NEW)
FG 1234.00 FINISHED GRADE ELEVATION (NEW)
FG 1234.00 SPOT ELEVATION (EXISTING)
ST STORM GRATE (NEW)

DRAINAGE AREA
Total Area = 45,714 S.F.
RETENTION REQUIRED:
 $V_{REQUIRED} = \frac{C(P)A}{12}$
where:
C = RUNOFF COEFFICIENT
P = PRECIPITATION - 100-YR, 2-HOUR (2.16") DRAINAGE AREA
A = DRAINAGE AREA
 $V_{PROVIDED} = \frac{d \times (A_{top} + A_{bottom} + \sqrt{A_{top} \times A_{bottom}})}{3}$
where:
d = Basin depth
A_{top} = Top area of basin
A_{bottom} = Bottom area of basin
AREA 1.0:
 $V_{REQUIRED} = \frac{(0.95)(2.16)(45,714)}{12}$
 $V_{REQUIRED} = 7,817 CF$
RETENTION PROVIDED:
PIPE STORAGE
where:
 $V_{PROVIDED} = (3.14) \times (r^2) \times (L)$
r = RADIUS
L = LENGTH
10" DIAMETER PIPE
r = 5.0 SF
L = 100 LF
 $V_{PROVIDED} = 7,854 CF$

FILE LOCATION: \\K:\10007\Store 1427\01 Civi\05-1427 Civi.dwg TAB NAME: Grading (Prelim) USER: broughn SAMED: 5/26/2020 1:32 PM PLOTTED: 5/26/2020 2:04 PM



PROJECT NO.: 05-1427

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DRAWN BY: JAW
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PLAN

SHEET NUMBER:

3 of 5

ORIGINAL ISSUE DATE: