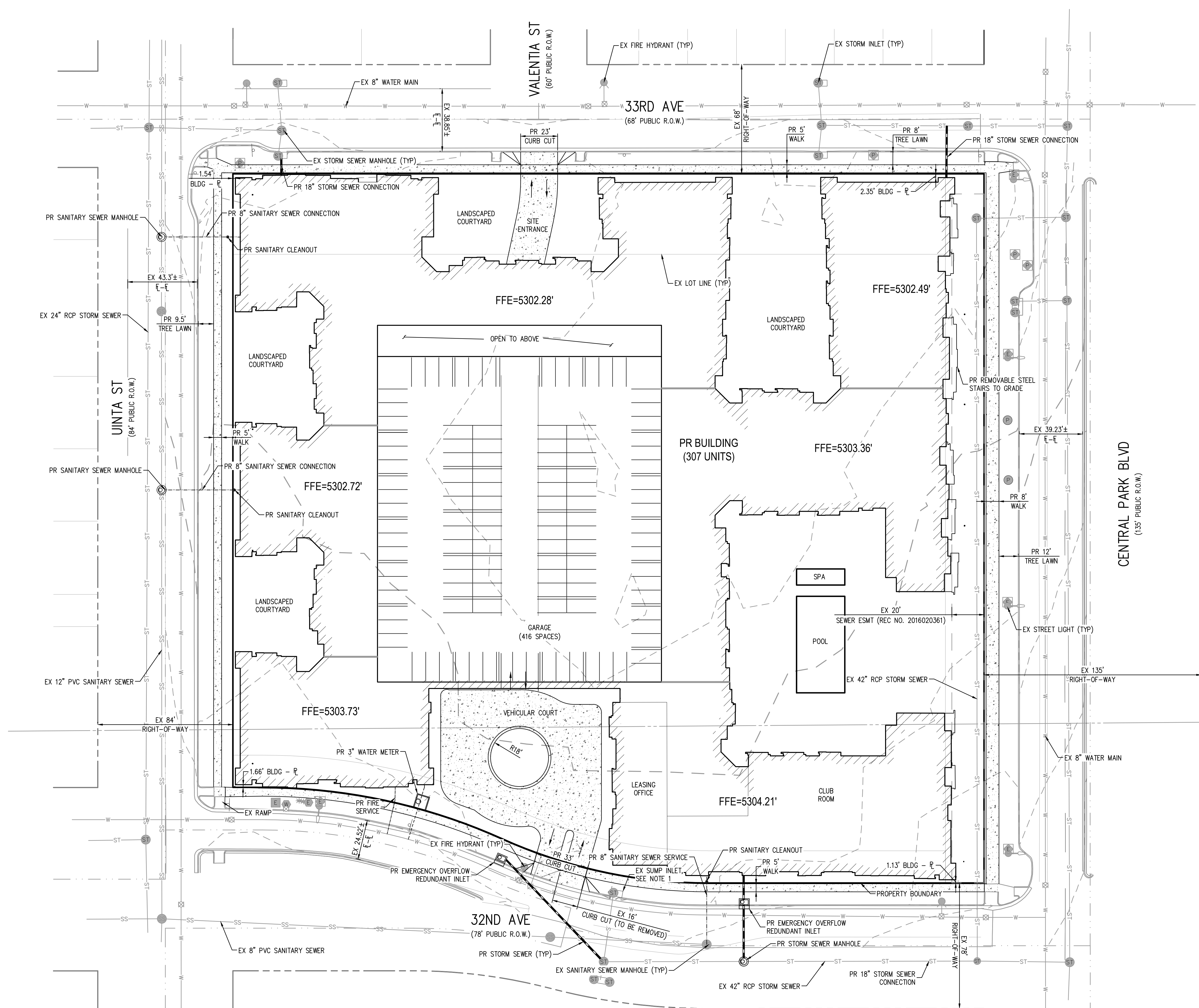
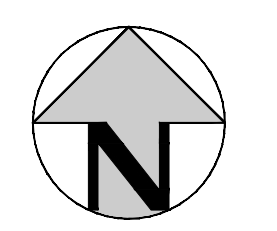


NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF HARRIS KOCHER SMITH.



SITE DATA

ZONING: C-MU-20
 SITE AREA: 4.51 ACRES
 PROPOSED USE: RESIDENTIAL DWELLING
 NO. DWELLING UNITS: 307
 DENSITY: 86.48 UNITS/ACRE
 GSF: 466 SPACES



WQ & DETENTION NOTE:

WATER QUALITY AND DETENTION REQUIREMENTS FOR THIS DEVELOPMENT ARE ACCOMMODATED OFF-SITE AS SPECIFIED IN THE FILING 18 STAPLETON DRAINAGE REPORT.

SANITARY SEWER PEAK FLOW CALCULATIONS:

NO. OF MULTI-FAMILY RESIDENTIAL DWELLING UNITS: 307
 DENSITY: OCCUPANCY: 2.0 PERSONS/DU
 AVG. DAILY FLOW PER CAPITA: 120 GPD
 AVERAGE FLOW = $307 \times 2.0 \times 120 = 73,680 \text{ GPD} = 0.11 \text{ CFS}$
 PEAK FACTOR = $2.6 \times (0.11)^{0.49} = 3.70$
 INFILTRATION/INFLOW = $4.51 \times 500 \times (1.55 \times 10^{-6}) = 0.003 \text{ CFS}$
 TOTAL FLOW = $(3.70 \times 0.11) + 0.003 = 0.41 \text{ CFS}$
 REQUIRED SEWER CAPACITY = $0.41 / 0.86 = 0.48 \text{ CFS}$

GRADING NOTE:

1. THE FINISHED FLOOR ELEVATION WILL BE 2' ABOVE THE FLOWLINE, OR GREATER THAN THE WATER SURFACE ELEVATION AT TWO TIMES THE 100-YEAR FLOW, OR GREATER THAN THE WATER SURFACE ELEVATION AT TWO TIMES THE FLOW AMOUNT FOR 12" OF DEPTH USING VERIFIED STREET CROSS SECTIONS.

NOTES:

1. EXISTING SUMP INLET EMERGENCY OVERFLOW PATH IS THROUGH SITE. ADDITIONAL INLETS ARE PROPOSED FLANKING THE EXISTING INLET TO ACCOMMODATE AN EMERGENCY OVERFLOW PATH WHICH DOES NOT PASS THROUGH THE SITE. INLETS WILL BE SIZED TO ACCOMMODATE

| FIRE FLOW | | | | | | |
|-----------------------------------|-------------------|-----------|-----------------|-------------------|---------------------------|------------------------------|
| DESCRIPTION | CONSTRUCTION TYPE | AREA (SF) | AREA PERCENTAGE | FULL GPM REQUIRED | SPRINKLER REDUCTION (GPM) | ADJUSTED FLOW PER AREA (GPM) |
| RESIDENTIAL | V-A | 326,000 | 69.52% | 8,000 | 4,000 | 2,780.89 |
| GARAGE | IIA | 142,915 | 30.48% | 6,000 | 3,000 | 914.33 |
| TOTAL UNADJUSTED FLOW (GPM) | | | | 7,391 | | |
| 50% REDUCTION WITH SPRINKLE (GPM) | | | | 3,695 | | |

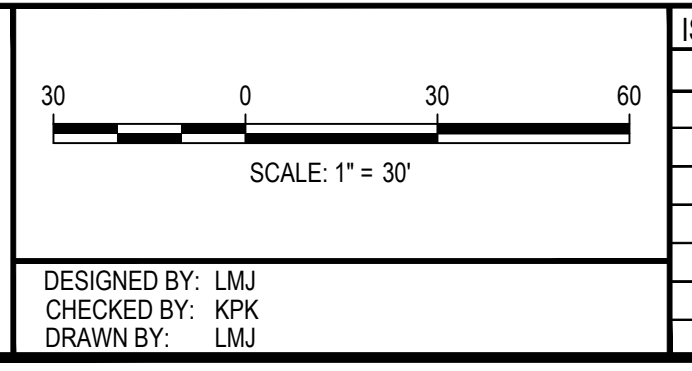
EACH FIRE HYDRANT MUST SUPPLY 1500 GPM MINIMUM @ 20 PSI RESIDUAL PRESSURE. NUMBER OF HYDRANTS REQUIRED: 3

CODE USED FOR THIS ANALYSIS: 2018 IFC WITH 2016 DENVER AMENDMENTS
 OCCUPANCY GROUP: R-2
 THESE BUILDINGS ARE FULLY SPRINKLERED

LEGEND:

- PROPERTY BOUNDARY/ ZONE LOT LINE
- RIGHT-OF-WAY
- EXISTING STORM SEWER W/INLET AND MANHOLE
- EXISTING SANITARY SEWER W/MANHOLE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD TELEPHONE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED DOMESTIC WATER SERVICE W/ 3" METER
- PROPOSED FIRE SERVICE
- PROPOSED SANITARY SERVICE W/ MANHOLE AND CLEANOUT
- PROPOSED STORM SEWER W/ INLET AND MANHOLE

FILE PATH: K:\200225\ENGINEERING\CONCEPT\CONCEPTUAL SITE PLANNING LAYOUT LAYOUT
 2 SHEETS
 PLOTTED: MON 06/07/20 5:46:45P BY: KEVIN KENNEDY



| DATE | REVISION COMMENTS |
|------------------------|-------------------|
| ISSUE DATE: 03-20-2020 | |



REYLENN PROPERTIES LLC

SOLANA CENTRAL PARK
 CONCEPTUAL SITE PLAN

PROJECT #: 200225
 SHEET NUMBER
1
 1 OF 1