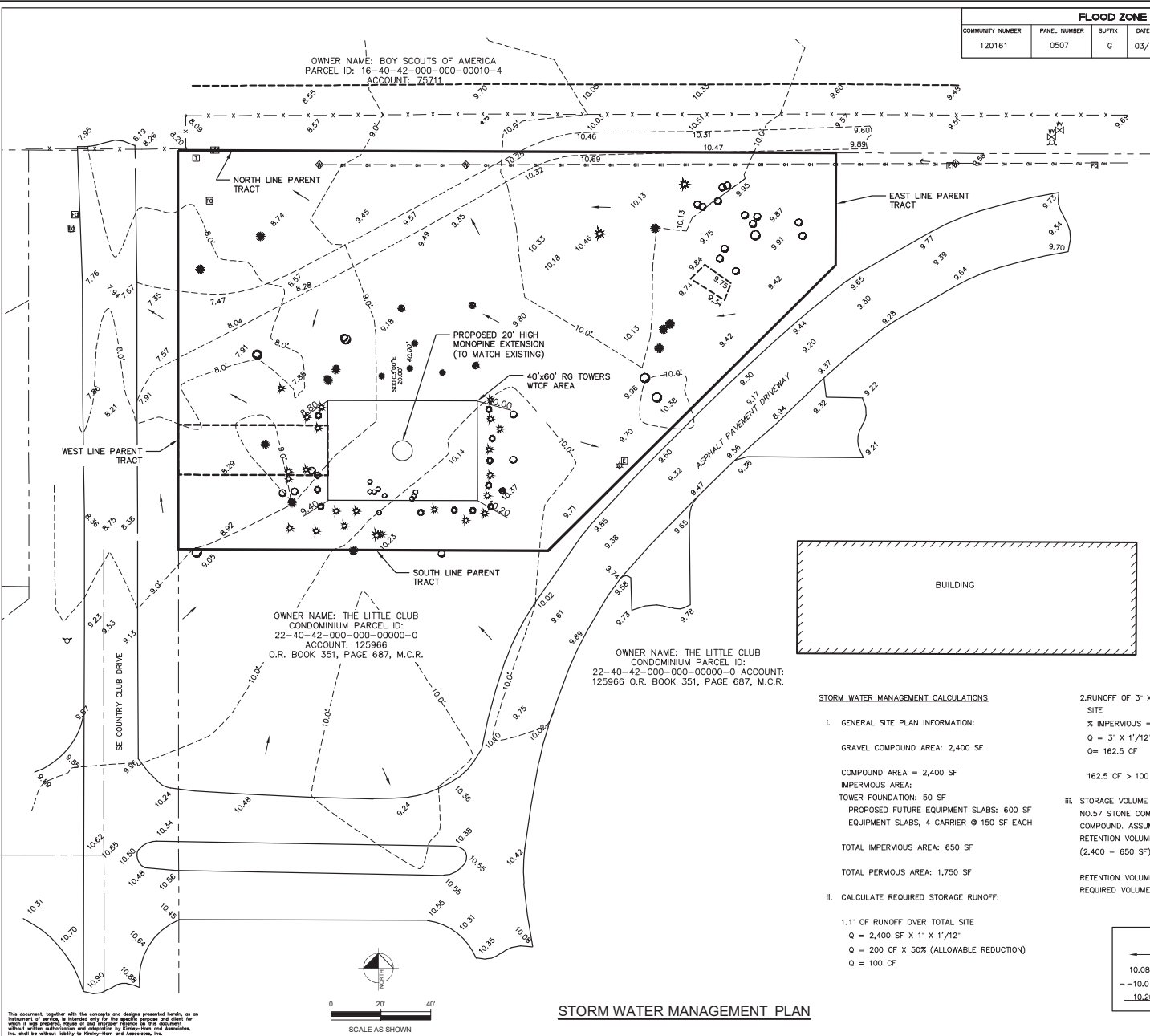
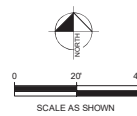


Drawing name: K:\WPB_CMI\CELL SITES\RCP Tower\144042033 - Kenal\cod\NEW Kenal Pole Extension Set\Cadd\CDs Kenal 1-23-2020.dwg C-1 Mar 24, 2020 1:58pm by: Maria.Martin

Drawing name: C:\WPB_CAD\CELL_SITES\K02_Tower\14402033 - Kenai\Kenai New Pole Extension Set\Cell\Cell 1-23-2020.dwg C-2 Mar 24, 2020 2:00pm by Monica Martin



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STORM WATER MANAGEMENT PLAN

FLOOD ZONE INFORMATION					
COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM	FIRM ZONE	BASE FLOOD ELEVATION
120161	0507	G	03/16/2015	X	N/A

- STORM WATER MANAGEMENT CALCULATIONS:**
- I. GENERAL SITE PLAN INFORMATION:
- GRAVEL COMPOUND AREA: 2,400 SF
- COMPOUND AREA = 2,400 SF
- IMPERVIOUS AREA:
- TOWER FOUNDATION: 50 SF
- PROPOSED FUTURE EQUIPMENT SLABS: 600 SF
- EQUIPMENT SLABS, 4 CARRIER @ 150 SF EACH
- TOTAL IMPERVIOUS AREA: 650 SF
- TOTAL PERVIOUS AREA: 1,750 SF
- II. CALCULATE REQUIRED STORAGE RUNOFF:
- 1.1' OF RUNOFF OVER TOTAL SITE
- $Q = 2,400 \text{ SF} \times 1' \times 1/12' = 200 \text{ CF}$
- $Q = 200 \text{ CF} \times 50\% \text{ (ALLOWABLE REDUCTION)} = 100 \text{ CF}$
2. RUNOFF OF 3" X % IMPERVIOUS OVER THE TOTAL SITE
- % IMPERVIOUS = $650 \text{ SF} / 2,400 \text{ SF} = 0.271$
- $Q = 3' \times 1/12' \times 0.271 \times 2,400 = 162.5 \text{ CF}$
- III. STORAGE VOLUME PROVIDED:
- NO.57 STONE COMPOUND, 4" LAYER, 2,400 SF COMPOUND. ASSUME 40% VOIDS RATIO.
- RETENTION VOLUME PROVIDED = $(2,400 - 650 \text{ SF}) \times 0.4 \times 4/12' = 233.33 \text{ CF}$
- RETENTION VOLUME PROVIDED IS GREATER THAN REQUIRED VOLUME.
- LEGEND**
- > FLOW DIRECTION
 - 10.08 SPOT ELEVATION
 - - - 10.0 - - - CONTOUR LINE
 - 10.20 COMPOUND ELEVATION

RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:
KENAI TC03 TELECOMMUNICATIONS TOWER EXTENSION
18071 SE COUNTRY CLUB DRIVE
TEQUESTA, FL 33469
MARTIN COUNTY

CURRENT ISSUE DATE:
MARCH 2020

ISSUED FOR:
POLE EXTENSION

REV.: DATE: DESCRIPTION:

SEAL:

Maria V. Martin
Araujo
2020.03.24
14:03:19 -
04'00'

PLANS PREPARED BY:
Kimley-Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

PROVIDER:

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DRAWN BY: CHK.: APV.:

GD	LF	CMM
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LICENSURE:

MARIA VICTORIA MARTIN CHELSEA M. MARAJAH	PE 72397 PE 84300
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SHEET TITLE:
STORM WATER MANAGEMENT PLAN

SHEET NUMBER: REVISION:

C-2	
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KHA Job #:
144042033