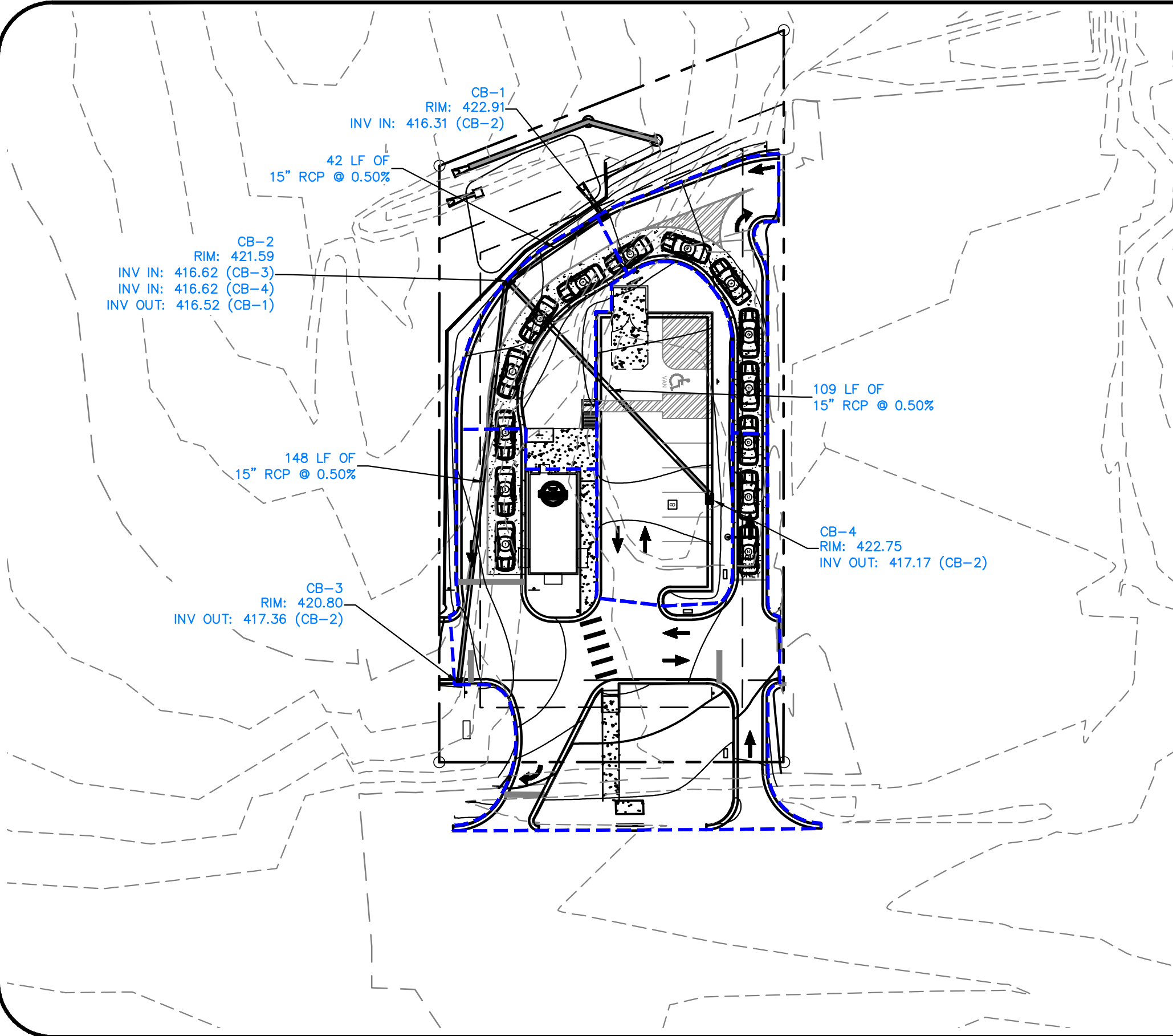
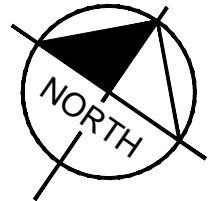
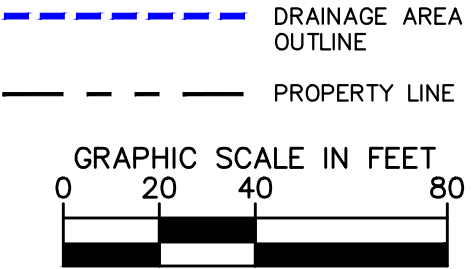


SCOOTERS ROLESVILLE

| INLET DRAINAGE AREA | |
|---------------------|-----------|
| INLET ID | AREA (AC) |
| CB-1 | 0.064 |
| CB-2 | 0.081 |
| CB-3 | 0.287 |
| CB-4 | 0.134 |



LEGEND



INLET DRAINAGE AREA MAP

KHA PROJECT NO: 016485000
DATE: 12/19/2023

Kimley»Horn

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421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601
PHONE: 919-677-2000 FAX: 919-677-2050
WWW.KIMLEY-HORN.COM

2-YEAR

FlexTable: Catch Basin Table

| Label | Inlet | Inlet Location | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Inlet C | Inlet Drainage Area (acres) | External CA (acres) | Local CA (acres) | Local Intensity (in/h) | Local Flow Time (min) | Bypassed Rational Flow (cfs) | Flow (Captured) (cfs) | Flow (Total Out) (cfs) | Capture Efficiency (Calculated) (%) | Spread / Top Width (ft) | Hydraulic Grade Line (In) (ft) | Clogging Factor (%) |
|-------|-------------------------|----------------|----------------------|-------------------------|---------|-----------------------------|---------------------|------------------|------------------------|-----------------------|------------------------------|-----------------------|------------------------|-------------------------------------|-------------------------|--------------------------------|---------------------|
| CB-1 | NCDOT-combination inlet | On Grade | 422.91 | 416.21 | 0.95 | 0.064 | 0.000 | 0.061 | 5.620 | 5.0 | 0.03 | 0.31 | 2.51 | 91.0 | 3.6 | 416.89 | 0.0 |
| CB-2 | NCDOT-combination inlet | In Sag | 421.59 | 416.52 | 0.75 | 0.081 | 0.000 | 0.061 | 5.620 | 5.0 | 0.00 | 0.34 | 2.23 | 100.0 | 3.1 | 417.13 | 0.0 |
| CB-3 | NCDOT-combination inlet | In Sag | 420.80 | 417.36 | 0.85 | 0.287 | 0.000 | 0.244 | 5.620 | 5.0 | 0.00 | 1.38 | 1.38 | 100.0 | 7.7 | 417.83 | 0.0 |
| CB-4 | NCDOT-combination inlet | In Sag | 422.75 | 417.17 | 0.75 | 0.134 | 0.000 | 0.101 | 5.620 | 5.0 | 0.00 | 0.57 | 0.57 | 100.0 | 4.3 | 417.47 | 0.0 |

10-YEAR

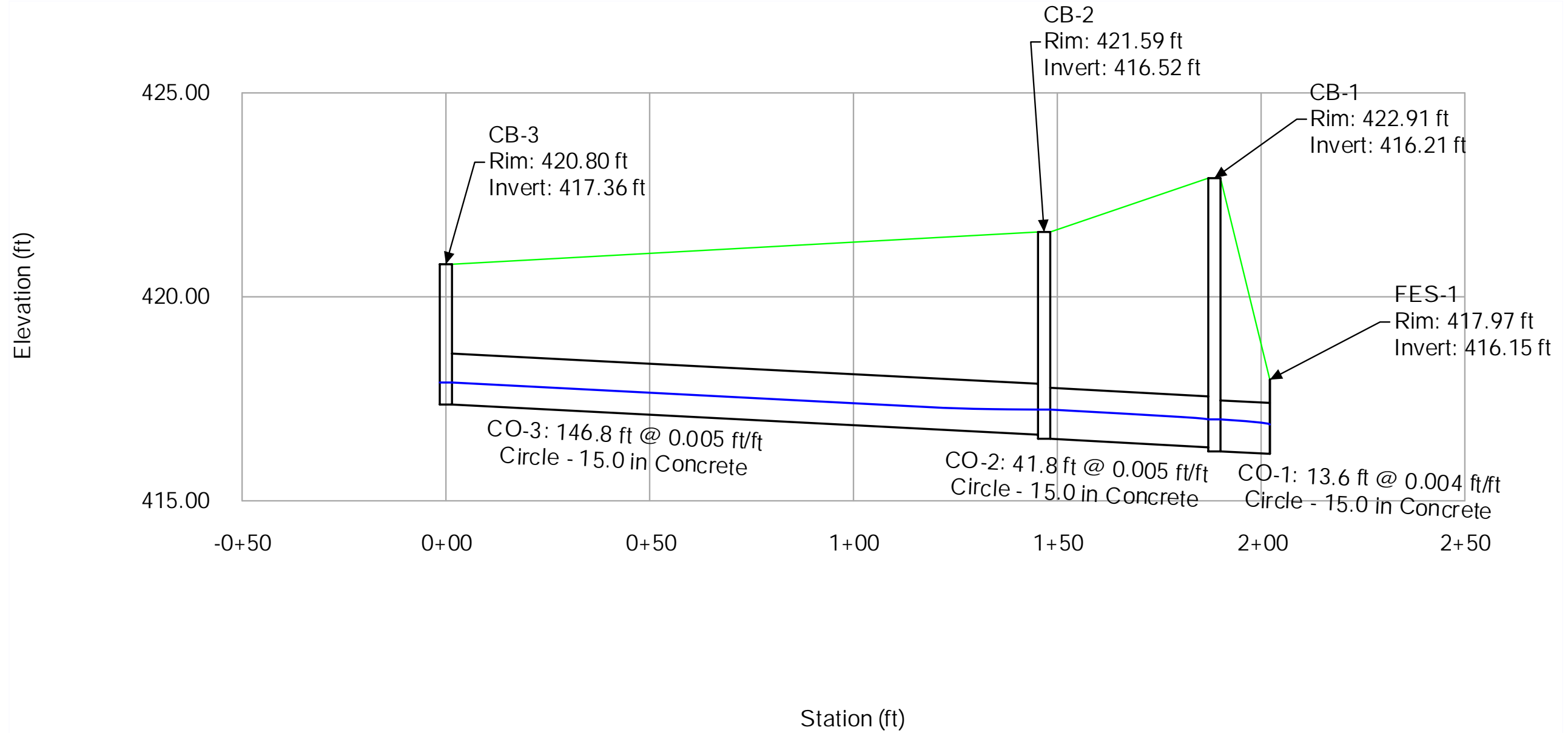
FlexTable: Conduit Table

| Label | Start Node | Stop Node | Upstream Inlet C | Upstream Inlet Area (acres) | Velocity (ft/s) | System Rational Flow (cfs) | Capacity (Full Flow) (cfs) | Flow (cfs) | System Intensity (in/h) | Invert (Start) (ft) | Invert (Stop) (ft) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) | Length (Unified) (ft) | Slope (Calculated) (ft/ft) | Diameter (in) | Manning's n | Material |
|-------|------------|-----------|------------------|-----------------------------|-----------------|----------------------------|----------------------------|------------|-------------------------|---------------------|--------------------|--------------------------------|---------------------------------|-----------------------|----------------------------|---------------|-------------|----------|
| CO-1 | CB-1 | FES-1 | 0.95 | 0.064 | 3.83 | 3.21 | 4.29 | 3.21 | 6.938 | 416.21 | 416.15 | 416.99 | 416.87 | 13.6 | 0.004 | 15.0 | 0.013 | Concrete |
| CO-2 | CB-2 | CB-1 | 0.75 | 0.081 | 3.93 | 2.85 | 4.58 | 2.85 | 6.989 | 416.52 | 416.31 | 417.23 | 416.99 | 41.8 | 0.005 | 15.0 | 0.013 | Concrete |
| CO-3 | CB-3 | CB-2 | 0.85 | 0.287 | 3.50 | 1.77 | 4.59 | 1.77 | 7.190 | 417.36 | 416.62 | 417.90 | 417.23 | 146.8 | 0.005 | 15.0 | 0.013 | Concrete |
| CO-4 | CB-4 | CB-2 | 0.75 | 0.134 | 2.74 | 0.73 | 4.62 | 0.73 | 7.190 | 417.17 | 416.62 | 417.51 | 417.23 | 107.7 | 0.005 | 15.0 | 0.013 | Concrete |

10-YEAR

Profile Report

Engineering Profile - CB-3 to FES-1 (2023-12-18 Scooters Rolesville.stsw)



10-YEAR
Profile Report
Engineering Profile - CB-4 to CB-2 (2023-12-18 Scooters Rolesville.stsw)

