

| Estimated Cut / Fill Quantities | |
|---------------------------------|----------------------------|
| Site Area | 17.72 Acres |
| Cut Volume (Unadjusted) | 30,198 c.y. |
| Fill Volume (Unadjusted) | 33,320 c.y. |
| Street & Sidewalk Cut Volume | 2,327c.y. |
| Net Excess | 795 c.y. (Unadjusted)(Cut) |

- Notes**
1. Contractor is responsible for verifying all existing utility locations prior to excavation
 2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
 3. No part of the project lies within the 100 year flood plain
 4. All erosion and sediment control measures need to be implemented prior to construction
 5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
 6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
 7. Contractor responsible for all density testing of roadway subgrade and granular base.

RECORD DRAWING
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Date: 2/14/2022
 Certified by: Matthew J. Schlicht
 Title: Engineer
 Firm: Engineering Solutions

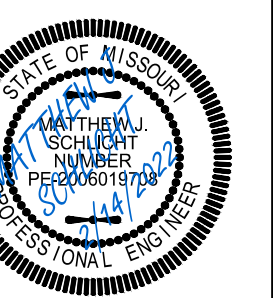
Master Drainage Plan 1 of 3:

Grading Plan
PARK RIDGE 8TH PLAT
 Section 9, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

Project:
 PARK RIDGE
 Issue Date:
 March 17, 2021

PARK RIDGE 8TH PLAT
 Section 9, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

Professional Registration
 Missouri
 Engineering 2005002186-D
 Surveying 2005008319-D
 Kansas
 Engineering E-1685
 Surveying LS-218
 Oklahoma
 Engineering 6254
 Nebraska
 Engineering CA2821

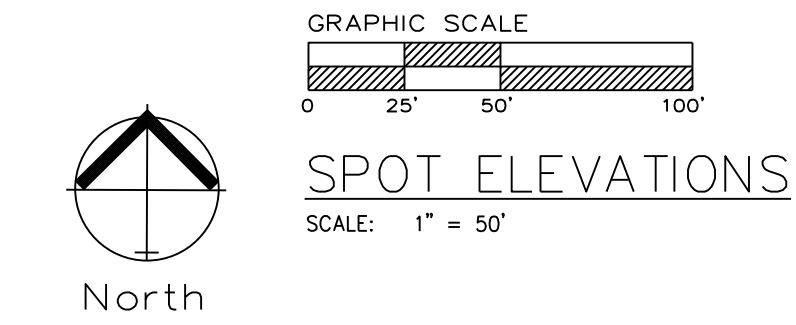


Matthew J. Schlicht
 MO PE 2006019708
 KS PE 19071
 OK PE 25226
 NE PE E-14335

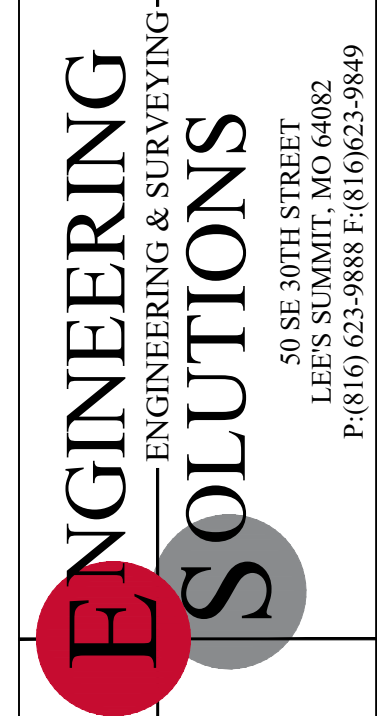
REVISIONS
 2/14/2022 As-Built



50 SE 30TH STREET
 LEE'S SUMMIT, MO 64082
 P: (816) 623-9888 F: (816) 623-9849



| Lot Number | Basement Type | MBOE |
|------------|---------------|--------|
| 362 | Full | 952.20 |
| 363 | Full | |
| 364 | Full | |
| 365 | Full | |
| 366 | Full | |
| 367 | Full | |
| 368 | Full | |
| 369 | Daylight | |
| 370 | Full | |
| 371 | Full | |
| 372 | Full | |
| 373 | Full | |
| 374 | Full | |
| 375 | Full | |
| 376 | Full | |
| 377 | Full | |
| 378 | Full | |
| 379 | Full | |
| 380 | Walkout | |
| 381 | Walkout | |
| 382 | Walkout | |
| 383 | Walkout | |
| 384 | Walkout | |
| 385 | Walkout | |
| 386 | Walkout | |
| 387 | Walkout | |
| 388 | Walkout | |
| 389 | Walkout | |
| 390 | Walkout | |
| 391 | Walkout | |



Professional Registration
 Missouri
 Engineering 2005002186-D
 Surveying 2005008319-D
 Kansas
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 Surveying LS-218
 Oklahoma
 Engineering S254
 Nebraska
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Project: PARK RIDGE
 Issue Date: March 17, 2021
 Master Drainage Plan 2 of 3:
 SPOT ELEVATIONS
 PARK RIDGE 8TH PLAT
 Section 9, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

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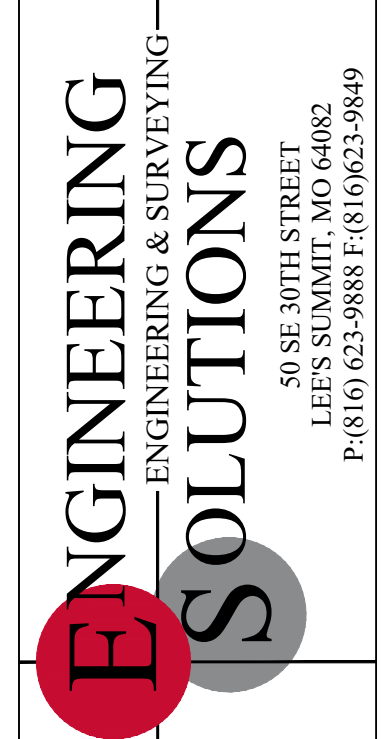
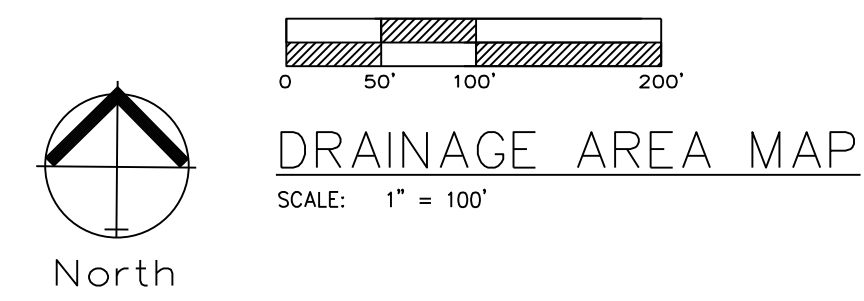
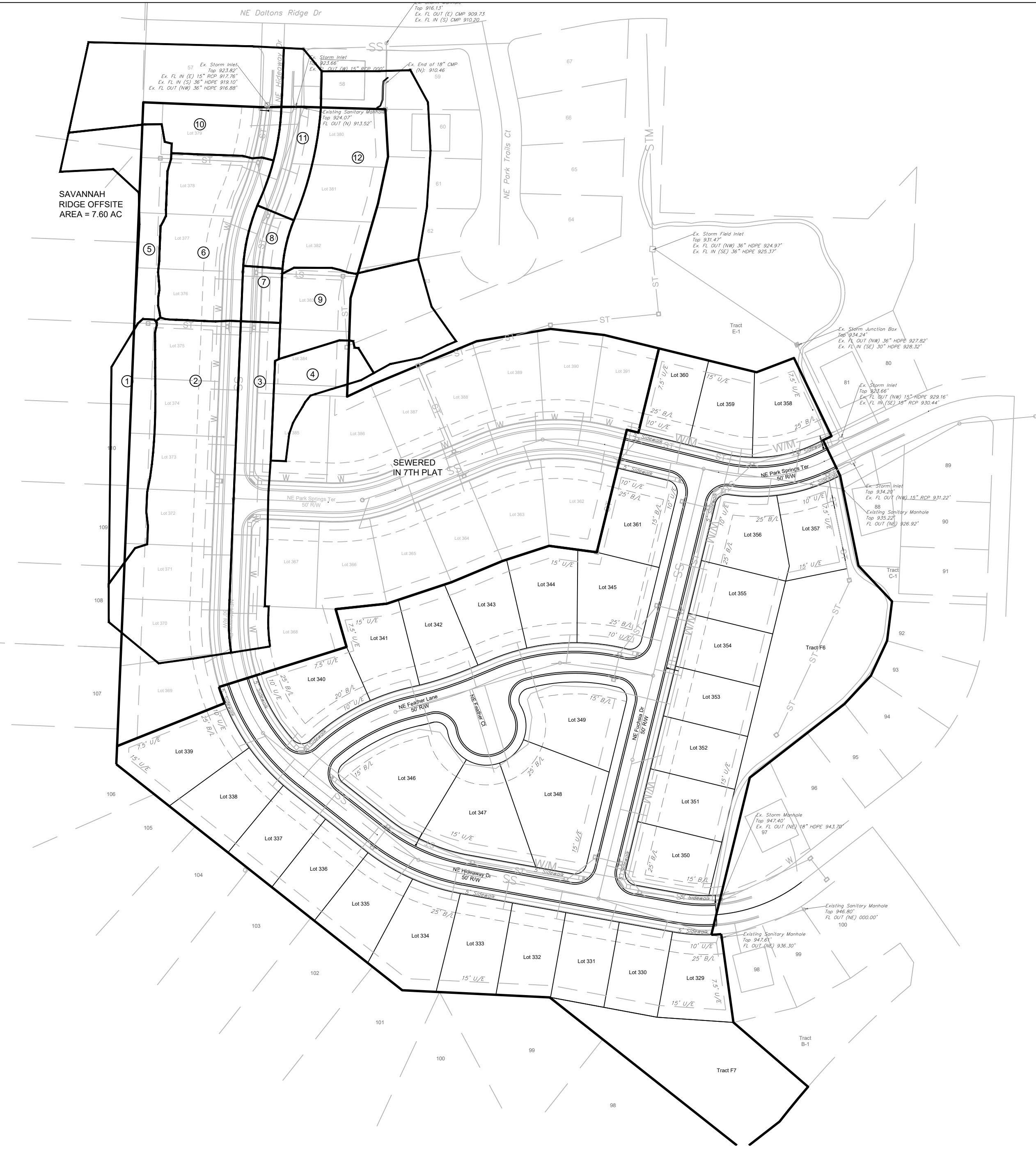
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REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|-----------|-------------|
| 1 | 2/14/2022 | As-Built |

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 Firm: Engineering Solutions





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 Missouri
 Engineering 2005002186-D
 Surveying 2005008319-D
 Kansas
 Engineering E-1695
 Surveying LS-218
 Oklahoma
 Engineering 62254
 Nebraska
 Engineering CA2821

Project:
 PARK RIDGE
 Issue Date:
 March 17, 2021

Master Drainage Map 3 of 3:
 Drainage Area Map
 PARK RIDGE 8TH PLAT
 Section 9, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

Section 9, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri



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REVISIONS
 2/14/2022 As-Built
 REV. 11-14-19

| APWA STORM DRAINAGE "TC" COMPUTATIONS FOR : PARK RIDGE 8TH PLAT | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|---|---------------|---------|---------|--------------|-----------|---------------|---------|---------|---------|---|----------------|---------|---------|---------|--------------|--------------------|-----------------|----------------------|----------------------|-------------|---------|
| | | Surface types: Asphalt/Conc/Bus/Com Dirt Grass/Park Lake MultiFam SnglFam Undev Other | | | | | | | | | | | | | | | | | | | | | |
| | | SURFACE CODES A B D G L M S U Z | | | | | | | | | | | | | | | | | | | | | |
| | | "C" Values 0.90 0.87 0.60 0.30 0.90 0.66 0.51 0.3 | | | | | | | | | | TC COMPUTATION | | | | | | | | | | | |
| | | Overwrite Length - DnElev or Slope if necessary | | | | | | | | | | SURFACE CODE P=Paved/Unpaved if necessary | | | | | | | | | | | |
| | | OVERLAND FLOW - 100' MAX | | | | | | | | | | FLOW - FIRST REACH | | | | | | | | | | | |
| AREA ID | TOTAL SQ.FT. | TOTAL ACRES | WTRSHD LENGTH | UP ELEV | DN ELEV | SURFACE CODE | "C" VALUE | OVRLND LENGTH | UP ELEV | DN ELEV | SLOPE % | SURFACE CODE | CHANNEL LENGTH | UP ELEV | DN ELEV | SLOPE % | VELOCITY F/S | Overland Flow T(I) | Used Min 5 T(I) | Cal Channel One T(T) | Cal Channel Two T(T) | Total T@ 10 | AREA ID |
| 1 | 14966.00 | 0.34 | 339.00 | 978.00 | 953.50 | Z | 0.51 | 67.0 | 978.0 | 974.00 | 6.0 | U | 272.0 | 974.0 | 953.5 | 7.54 | 4.4 | 4.8 | 5.0 | 1.0 | 0.0 | 6.0 | 1 |
| 2 | 50289.00 | 1.15 | 496.00 | 975.70 | 943.00 | Z | 0.51 | 100.0 | 975.7 | 972.00 | 3.7 | P | 396.0 | 972.0 | 943.0 | 7.32 | 5.5 | 6.9 | 6.9 | 1.2 | 0.0 | 8.1 | 2 |
| 3 | 19199.00 | 0.44 | 447.00 | 973.00 | 943.00 | Z | 0.51 | 36.0 | 973.0 | 972.00 | 2.8 | P | 411.0 | 972.0 | 943.0 | 7.06 | 5.4 | 4.5 | 5.0 | 1.3 | 0.0 | 6.3 | 3 |
| 4 | 8486.00 | 0.19 | 202.00 | 960.00 | 930.50 | Z | 0.51 | 100.0 | 960.0 | 948.50 | 11.5 | U | 102.0 | 948.5 | 930.5 | 17.65 | 6.8 | 4.7 | 5.0 | 0.3 | 0.0 | 5.3 | 4 |
| 5 | 13330.00 | 0.31 | 219.00 | 963.00 | 951.00 | Z | 0.51 | 100.0 | 963.0 | 955.50 | 7.5 | P | 119.0 | 955.5 | 951.0 | 3.78 | 4.0 | 5.4 | 5.4 | 0.5 | 0.0 | 5.9 | 5 |
| 6 | 23746.00 | 0.55 | 286.00 | 953.00 | 925.00 | Z | 0.51 | 100.0 | 953.0 | 941.00 | 12.0 | P | 186.0 | 941.0 | 925.0 | 8.60 | 6.0 | 4.6 | 5.0 | 0.5 | 0.0 | 5.5 | 6 |
| 7 | 3478.00 | 0.08 | 99.00 | 943.00 | 936.00 | Z | 0.51 | 36.0 | 943.0 | 942.00 | 2.8 | P | 63.0 | 942.0 | 936.0 | 9.52 | 6.3 | 4.5 | 5.0 | 0.2 | 0.0 | 5.2 | 7 |
| 8 | 3558.00 | 0.08 | 103.00 | 936.70 | 929.00 | Z | 0.51 | 36.0 | 936.7 | 935.30 | 3.9 | P | 67.0 | 935.3 | 929.0 | 9.40 | 6.2 | 4.1 | 5.0 | 0.2 | 0.0 | 5.2 | 8 |
| 9 | 21596.00 | 0.50 | 156.00 | 937.00 | 926.50 | Z | 0.51 | 91.0 | 937.0 | 931.00 | 6.6 | U | 65.0 | 931.0 | 926.5 | 6.92 | 4.2 | 5.4 | 5.4 | 0.3 | 0.0 | 5.7 | 9 |
| 10 | 32151.00 | 0.74 | 262.00 | 941.00 | 924.00 | Z | 0.51 | 100.0 | 941.0 | 931.00 | 10.0 | U | 162.0 | 931.0 | 924.0 | 4.32 | 3.4 | 4.9 | 5.0 | 0.8 | 0.0 | 5.8 | 10 |
| 11 | 10143.00 | 0.23 | 171.00 | 929.50 | 924.00 | Z | 0.51 | 36.0 | 929.5 | 928.00 | 4.2 | P | 135.0 | 928.0 | 924.0 | 2.96 | 3.5 | 4.0 | 5.0 | 0.6 | 0.0 | 5.6 | 11 |
| 12 | 37543.00 | 0.86 | 271.00 | 937.00 | 912.50 | Z | 0.51 | 36.0 | 937.0 | 925.00 | 16.7 | U | 235.0 | 925.0 | 912.5 | 5.32 | 3.7 | 2.5 | 5.0 | 1.1 | 0.0 | 6.1 | 12 |

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