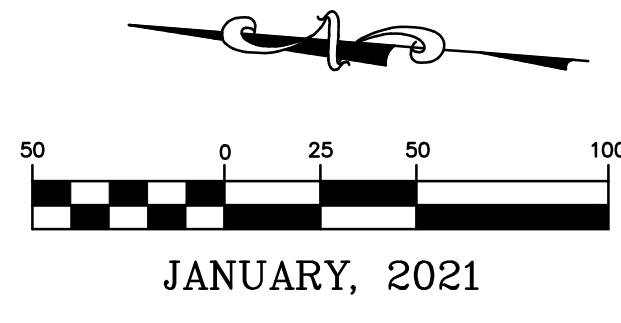


# STORM SEWER DRAINAGE AREA MAP - PHASE II



JANUARY, 2021

636-584-0540 (tel.)  
636-584-0512 (fax)  
mail@ochran.com

**CHORAN**

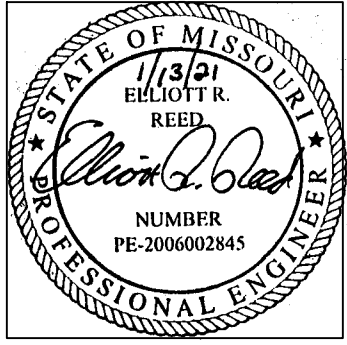
- Civil Engineering
- Land Surveying
- Architecture
- Site Development
- General Consulting
- Master Planning

530A E. Independence Dr.  
Union, Missouri 63084

Missouri State Certificate of Authority Numbers:  
Survey: 000380  
Engineering: 001655  
Architecture: 2002014240

Three working days prior to the start of any excavation call 1-800-463-ARTE for utility location information.

All OSHA rules & regulations construction required by these plans shall be strictly followed (i.e. trenching, blasting, etc.)

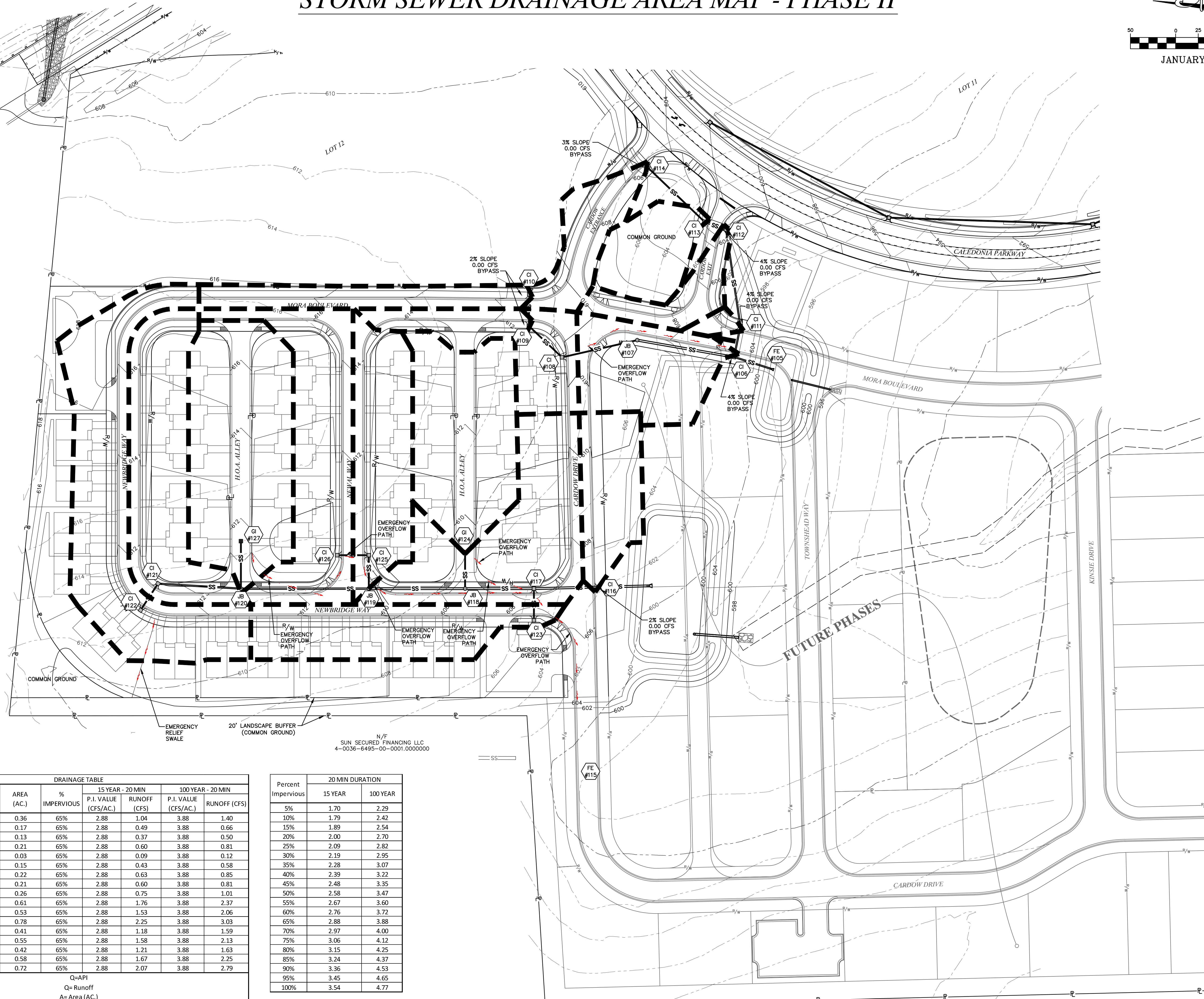


THE STREETS OF CALEDONIA  
PHASE II RESIDENTIAL  
O'FALLON, MISSOURI

STORM SEWER DRAINAGE AREA MAP - PHASE II

|               |              |
|---------------|--------------|
| DATE:         | DATE:        |
| DESIGN BY:    | APPROVED BY: |
| TJG           | ERR          |
| DATE:         | DATE:        |
| JAN. 13, 2021 |              |
| SCALE:        |              |
| 1" = 50'      |              |
| PROJ. NO.:    |              |
| 17-6821       |              |
| DWG. NO.:     |              |
| C8.01         |              |

OWNER/DEVELOPER:  
DD LAND DEVELOPMENT, LLC  
10407 BAUR BLVD. SUITE B  
ST. LOUIS, MO 63132



| DRAINAGE TABLE |              |            |              |                      |              |                      |              |
|----------------|--------------|------------|--------------|----------------------|--------------|----------------------|--------------|
| Drainage Area  | Inlet Number | AREA (AC.) | % IMPERVIOUS | 15 YEAR - 20 MIN     |              | 100 YEAR - 20 MIN    |              |
|                |              |            |              | P.I. VALUE (CFS/AC.) | RUNOFF (CFS) | P.I. VALUE (CFS/AC.) | RUNOFF (CFS) |
| 1              | CI #106      | 0.36       | 65%          | 2.88                 | 1.04         | 3.88                 | 1.40         |
| 2              | CI #108      | 0.17       | 65%          | 2.88                 | 0.49         | 3.88                 | 0.66         |
| 3              | CI #109      | 0.13       | 65%          | 2.88                 | 0.37         | 3.88                 | 0.50         |
| 4              | CI #110      | 0.21       | 65%          | 2.88                 | 0.60         | 3.88                 | 0.81         |
| 5              | CI #111      | 0.03       | 65%          | 2.88                 | 0.09         | 3.88                 | 0.12         |
| 6              | CI #112      | 0.15       | 65%          | 2.88                 | 0.43         | 3.88                 | 0.58         |
| 7              | CI #113      | 0.22       | 65%          | 2.88                 | 0.63         | 3.88                 | 0.85         |
| 8              | CI #114      | 0.21       | 65%          | 2.88                 | 0.60         | 3.88                 | 0.81         |
| 9              | CI #116      | 0.26       | 65%          | 2.88                 | 0.75         | 3.88                 | 1.01         |
| 10             | CI #117      | 0.61       | 65%          | 2.88                 | 1.76         | 3.88                 | 2.37         |
| 11             | CI #121      | 0.53       | 65%          | 2.88                 | 1.53         | 3.88                 | 2.06         |
| 12             | CI #122      | 0.78       | 65%          | 2.88                 | 2.25         | 3.88                 | 3.03         |
| 13             | CI #123      | 0.41       | 65%          | 2.88                 | 1.18         | 3.88                 | 1.59         |
| 14             | GI #124      | 0.55       | 65%          | 2.88                 | 1.58         | 3.88                 | 2.13         |
| 15             | CI #125      | 0.42       | 65%          | 2.88                 | 1.21         | 3.88                 | 1.63         |
| 16             | CI #126      | 0.58       | 65%          | 2.88                 | 1.67         | 3.88                 | 2.25         |
| 17             | GI #127      | 0.72       | 65%          | 2.88                 | 2.07         | 3.88                 | 2.79         |

Q=API  
Q= Runoff  
A= Area (AC.)  
P.I.= (CFS/AC.)

| Percent Impervious | 20 MIN DURATION |          |
|--------------------|-----------------|----------|
|                    | 15 YEAR         | 100 YEAR |
| 5%                 | 1.70            | 2.29     |
| 10%                | 1.79            | 2.42     |
| 15%                | 1.89            | 2.54     |
| 20%                | 2.00            | 2.70     |
| 25%                | 2.09            | 2.82     |
| 30%                | 2.19            | 2.95     |
| 35%                | 2.28            | 3.07     |
| 40%                | 2.39            | 3.22     |
| 45%                | 2.48            | 3.35     |
| 50%                | 2.58            | 3.47     |
| 55%                | 2.67            | 3.60     |
| 60%                | 2.76            | 3.72     |
| 65%                | 2.88            | 3.88     |
| 70%                | 2.97            | 4.00     |
| 75%                | 3.06            | 4.12     |
| 80%                | 3.15            | 4.25     |
| 85%                | 3.24            | 4.37     |
| 90%                | 3.36            | 4.53     |
| 95%                | 3.45            | 4.65     |
| 100%               | 3.54            | 4.77     |

Drawing name: E:\17-6821 - 860 Acre Tract along Hwy 40, O'Fallon, MO\AutoCad Drawings\6821 - Plan Sheets\Construction Drawings\PH2 Residential Plans\17-Storm Sewer Drainage Area Map Phase 2.dwg Tab: STORM OVERVIEW PH2 Plotted on: Jan 14, 2021 - 3:47pm Plotted by: tchew