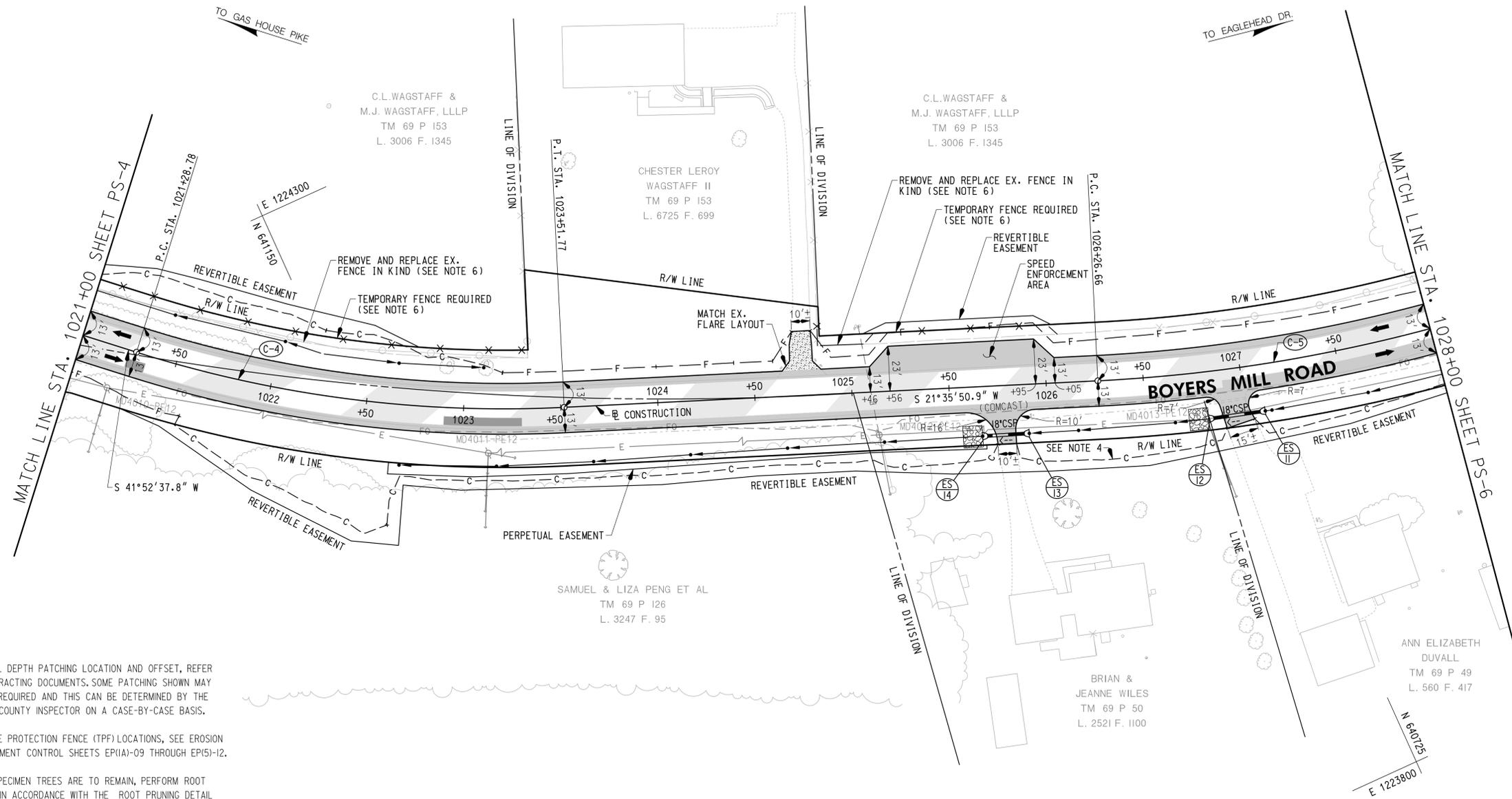


**C-4**  
**CURVE DATA**  
 DELTA = 20°16'46.9" LT.  
 Dc = 9°05'40.4"  
 R = 630.00'  
 T = 112.67'  
 L = 222.99'  
 E = 10.00'

**C-5**  
**CURVE DATA**  
 DELTA = 19°18'22.6" LT.  
 Dc = 6°59'14.2"  
 R = 820.00'  
 T = 139.48'  
 L = 276.31'  
 E = 11.78'

E 1224300  
 N 640725



- NOTES:**
- FOR FULL DEPTH PATCHING LOCATION AND OFFSET, REFER TO CONTRACTING DOCUMENTS. SOME PATCHING SHOWN MAY NOT BE REQUIRED AND THIS CAN BE DETERMINED BY THE ON-SITE COUNTY INSPECTOR ON A CASE-BY-CASE BASIS.
  - FOR TREE PROTECTION FENCE (TPF) LOCATIONS, SEE EROSION AND SEDIMENT CONTROL SHEETS EP(1A)-09 THROUGH EP(5)-12.
  - WHERE SPECIMEN TREES ARE TO REMAIN, PERFORM ROOT PRUNING IN ACCORDANCE WITH THE ROOT PRUNING DETAIL ON SHEET ES-03.
  - FOR THE WILES PROPERTY, CONTRACTOR SHALL DISCUSS GRADING WITH THE PROPERTY OWNER AND MAKE SURE HE IS COMFORTABLE USING HIS RIDING MOWER ON THE PROPOSED SLOPE.

**SIDE DITCH/SWM BIO-SWALE STAKEOUT**

| REFERENCE STATION | OFFSET    | INVERT ELEVATION |
|-------------------|-----------|------------------|
| 1022+69           | 31.0' RT. | 540.75           |
| 1022+75           | 30.8' RT. | 540.78           |
| 1023+00           | 29.7' RT. | 540.91           |
| 1023+25           | 29.3' RT. | 541.04           |
| 1023+50           | 28.8' RT. | 541.17           |
| 1023+75           | 28.3' RT. | 541.29           |
| 1024+00           | 27.8' RT. | 541.42           |
| 1024+25           | 27.3' RT. | 541.54           |
| 1024+50           | 26.8' RT. | 541.67           |
| 1024+75           | 26.4' RT. | 541.80           |
| 1025+00           | 26.0' RT. | 541.92           |
| 1025+25           | 25.9' RT. | 542.05           |
| 1025+50           | 25.7' RT. | 542.17           |
| 1025+75           | 25.7' RT. | 542.31           |
| 1026+00           | 25.1' RT. | 542.63           |
| 1026+25           | 24.8' RT. | 543.01           |
| 1026+50           | 24.4' RT. | 543.40           |
| 1026+75           | 24.2' RT. | 543.78           |
| 1027+00           | 24.0' RT. | 544.15           |
| 1027+25           | 24.1' RT. | 544.65           |
| 1027+50           | 24.2' RT. | 545.16           |
| 1027+75           | 24.4' RT. | 545.66           |
| 1028+00           | 24.3' RT. | 546.15           |

**SIDE DITCH/SWM BIO-SWALE STAKEOUT**

| REFERENCE STATION | OFFSET    | INVERT ELEVATION |
|-------------------|-----------|------------------|
| 1021+00           | 24.0' LT. | 538.61           |
| 1021+25           | 24.0' LT. | 540.54           |
| 1021+50           | 24.0' LT. | 541.72           |
| 1021+75           | 24.0' LT. | 542.28           |
| 1022+00           | 24.0' LT. | 542.40           |
| 1022+25           | 21.0' LT. | 543.12           |
| 1022+50           | 21.0' LT. | 542.86           |
| 1022+75           | 21.0' LT. | 542.65           |
| 1023+00           | 21.0' LT. | 542.43           |
| 1023+10           | 21.0' LT. | 542.43           |

- ADDITIONAL NOTES:**
- FOR THE PENG PROPERTY, IF CROPS ARE NOT ALREADY PLANTED WHEN CONSTRUCTION BEGINS, CONTRACTOR SHALL STAKE PERPETUAL AND TEMPORARY EASEMENT LINES SO THE PROPERTY OWNER DOES NOT PLANT IN THESE AREAS. IF THE AREAS ARE ALREADY PLANTED WITH CROPS, CONTRACTOR SHALL CONTACT THE COUNTY PROJECT MANAGER BEFORE PROCEEDING, AS DAMAGES WILL HAVE TO BE PAID TO THE PROPERTY OWNER.
  - FOR THE WAGSTAFF PROPERTY, CONTRACTOR SHALL CONTACT THE PROJECT MANAGER THREE WEEKS PRIOR TO INSTALLING TEMPORARY FENCING OR REMOVING THE EXISTING FENCING (301-600-1806), REMOVE AND RESET EX. FENCE TO BE USED AS TEMPORARY FENCE TO BE CAPABLE OF CONTAINING LARGE LIVESTOCK (HORSES, COWS, ETC.). IF THE EXISTING FENCE IS ELECTRIC, THE TEMPORARY FENCING NEEDS TO BE ELECTRIC.
  - WHEN CLEARING AND GRUBBING TO INSTALL AND DURING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE TEMPORARY EASEMENT AREAS, (BETWEEN THE LIMITS OF PERMANENT GRADING AND LIMIT OF DISTURBANCE), THE CONTRACTOR SHALL MAKE EVERY POSSIBLE ATTEMPT TO AVOID UNNECESSARY DISTURBANCE TO EXISTING TREES, STRUCTURES AND LANDSCAPING WITHIN THE AREA. THE CONTRACTOR SHALL PRESENT THE ENGINEER WITH POSSIBLE OPTIONS TO MINIMIZE DISTURBANCES TO THESE ITEMS FOR APPROVAL.

**LEGEND**

- FULL DEPTH RECONSTRUCTION
- FULL DEPTH PATCHING
- GRIND / RESURFACING
- PAVEMENT REMOVAL
- TYPE B SOIL STABILIZATION MATTING
- COBBLESTONE STAMPED PORTLAND CEMENT CONCRETE
- PLAIN PORTLAND CEMENT CONCRETE
- TRAFFIC FLOW ARROW
- CONSTRUCTION
- SOIL BORING
- UTILITY TEST PITS



**WALLACE MONTGOMERY**  
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 Hunt Valley, Maryland 21030  
 410.494.9093 Tel / 410.667.0925 Fax  
 www.WallaceMontgomery.com  
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**CROSS REFERENCE**

| ITEM                             | SHEET Nos.       |
|----------------------------------|------------------|
| TYPICAL SECTIONS                 | TS-1 TO TS-3     |
| SUPERELEVATION CHARTS            | SE-1             |
| PIPE & DRAINAGE SCHEDULE         | SS-1             |
| GEOMETRIC LAYOUT SHEETS          | GS-1 TO GS-3     |
| ROADWAY PLAN SHEETS              | PS-1 TO PS-12    |
| ROADWAY PROFILE SHEETS           | PR-1 TO PR-13    |
| TRAFFIC CONTROL SHEETS           | TC-1 TO TC-7     |
| EROSION & SEDIMENT CONTROL PLANS | EP-1 TO EP(5)-12 |
| SIGNING & MARKING PLANS          | SN-1 TO SN-12    |
| LANDSCAPE PLAN SHEETS            | LD-1 TO LD-14    |
| RESPECTIVE RIGHT-OF-WAY PLATS    | PLAT NO. 408-420 |

**REMOVE AND RESET EXISTING FENCE\***

|   |  |
|---|--|
| 224 L.F. - BOYERS MILL STA. 1021+00 TO 1023+34, LT. |  |
| 138 L.F. - BOYERS MILL STA. 1024+84 TO 1026+07, LT. |  |

\*EXISTING FENCE WILL BE USED FOR TEMPORARY FENCE TO HOLD CHILDREN AND ANIMALS. FENCE WILL BE REPLACED AT THE END OF CONSTRUCTION.

**REMOVE AND REPLACE EXISTING FENCE**

| STATION             | OFFSET    | LENGTH |
|---------------------|-----------|--------|
| BOYERS MILL 1021+00 | 30.0' LT. | 223.5' |
| BOYERS MILL 1021+29 | 30.0' LT. |        |
| BOYERS MILL 1023+34 | 30.1' LT. |        |
| BOYERS MILL 1024+84 | 35.0' LT. |        |
| BOYERS MILL 1024+84 | 25.0' LT. |        |
| BOYERS MILL 1025+07 | 24.8' LT. |        |
| BOYERS MILL 1025+13 | 30.0' LT. | 137.8' |
| BOYERS MILL 1026+02 | 30.0' LT. |        |
| BOYERS MILL 1026+07 | 24.8' LT. |        |

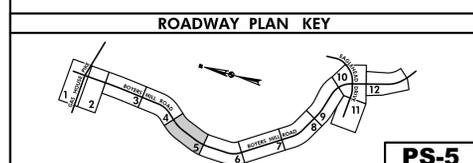
**CLASS 1 RIPRAP FOR CHANNEL PROTECTION WITH END SECTION (SS-1)**

|   |
|---|
| 13 S.Y. - BOYERS MILL STA. 1025+61, RT. (L=10') |
| 13 S.Y. - BOYERS MILL STA. 1026+76, RT. (L=10') |

**DRIVEWAY ENTRANCE SCHEDULE\***

| STATION   | TIE-IN OFFSET | WIDTH |
|-----------|---------------|-------|
| 1024+74.7 | 13' LT.       | 12'   |
| 1025+75.4 | 13' RT.       | 10'   |
| 1026+94.7 | 13' RT.       | 15'   |

\*SEE SHEET 8 FOR DRIVEWAY DETAIL



**FREDERICK COUNTY, MARYLAND**  
 DIVISION OF PUBLIC WORKS  
 DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT  
 OFFICE OF TRANSPORTATION ENGINEERING  
 FREDERICK COUNTY, MARYLAND

**BOYERS MILL ROAD  
 FROM GAS HOUSE PIKE  
 TO NORTH OF LAKE LINGANORE  
 ROADWAY PLAN**

DATE: JUNE 2016 SCALE: 1"=30'  
 PROJECT NO: C28412 DWG. 20 OF 132

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