



# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

### BOUNDARIES AND PROPERTY:

|                                       |         |
|---------------------------------------|---------|
| State Line                            | _____   |
| County Line                           | _____   |
| Township Line                         | _____   |
| City Line                             | _____   |
| Reservation Line                      | _____   |
| Property Line                         | _____   |
| Existing Iron Pin (EIP)               | ○       |
| Computed Property Corner              | ×       |
| Existing Concrete Monument (ECM)      | □       |
| Parcel/Sequence Number                | (123)   |
| Existing Fence Line                   | -x-x-x- |
| Proposed Woven Wire Fence             | ○       |
| Proposed Chain Link Fence             | □       |
| Proposed Barbed Wire Fence            | ◇       |
| Existing Wetland Boundary             | -WLB-   |
| Proposed Wetland Boundary             | -WLB-   |
| Existing Endangered Animal Boundary   | -EAB-   |
| Existing Endangered Plant Boundary    | -EPB-   |
| Existing Historic Property Boundary   | -HPB-   |
| Known Contamination Area: Soil        | -S-S-   |
| Potential Contamination Area: Soil    | -S-S-   |
| Known Contamination Area: Water       | -W-W-   |
| Potential Contamination Area: Water   | -W-W-   |
| Contaminated Site: Known or Potential | ☠ ?     |

### BUILDINGS AND OTHER CULTURE:

|                               |   |
|-------------------------------|---|
| Gas Pump Vent or U/G Tank Cap | ○ |
| Sign                          | ○ |
| Well                          | ○ |
| Small Mine                    | × |
| Foundation                    | □ |
| Area Outline                  | □ |
| Cemetery                      | □ |
| Building                      | □ |
| School                        | □ |
| Church                        | □ |
| Dam                           | □ |

### HYDROLOGY:

|                                    |        |
|------------------------------------|--------|
| Stream or Body of Water            | _____  |
| Hydro, Pool or Reservoir           | _____  |
| Jurisdictional Stream              | -JS-   |
| Buffer Zone 1                      | -BZ 1- |
| Buffer Zone 2                      | -BZ 2- |
| Flow Arrow                         | ←      |
| Disappearing Stream                | →      |
| Spring                             | ○      |
| Wetland                            | ↓      |
| Proposed Lateral, Tail, Head Ditch | →      |
| False Sump                         | ▽      |

### RAILROADS:

|                    |       |
|--------------------|-------|
| Standard Gauge     | _____ |
| RR Signal Milepost | ○     |
| Switch             | □     |
| RR Abandoned       | _____ |
| RR Dismantled      | _____ |

### RIGHT OF WAY & PROJECT CONTROL:

|  |       |
|--|-------|
| Primary Horiz Control Point                          | ○     |
| Primary Horiz and Vert Control Point                 | ●     |
| Secondary Horiz and Vert Control Point               | ◆     |
| Vertical Benchmark                                   | ⊠     |
| Existing Right of Way Monument                       | △     |
| Proposed Right of Way Monument (Rebar and Cap)       | ▲     |
| Proposed Right of Way Monument (Concrete)            | ⊙     |
| Existing Permanent Easement Monument                 | ◇     |
| Proposed Permanent Easement Monument (Rebar and Cap) | ◆     |
| Existing C/A Monument                                | △     |
| Proposed C/A Monument (Rebar and Cap)                | ▲     |
| Proposed C/A Monument (Concrete)                     | ⊙     |
| Existing Right of Way Line                           | _____ |
| Proposed Right of Way Line                           | _____ |
| Existing Control of Access Line                      | _____ |
| Proposed Control of Access Line                      | _____ |
| Proposed ROW and CA Line                             | _____ |
| Existing Easement Line                               | _____ |
| Proposed Temporary Construction Easement             | -E-   |
| Proposed Temporary Drainage Easement                 | -TDE- |
| Proposed Permanent Drainage Easement                 | -PDE- |
| Proposed Permanent Drainage/Utility Easement         | -DUE- |
| Proposed Permanent Utility Easement                  | -PUE- |
| Proposed Temporary Utility Easement                  | -TUE- |
| Proposed Aerial Utility Easement                     | -AUE- |

### ROADS AND RELATED FEATURES:

|                            |       |
|----------------------------|-------|
| Existing Edge of Pavement  | _____ |
| Existing Curb              | _____ |
| Proposed Slope Stakes Cut  | -C-   |
| Proposed Slope Stakes Fill | -F-   |
| Proposed Curb Ramp         | _____ |
| Existing Metal Guardrail   | _____ |
| Proposed Guardrail         | _____ |
| Existing Cable Guiderail   | _____ |
| Proposed Cable Guiderail   | _____ |
| Equality Symbol            | ⊕     |
| Pavement Removal           | _____ |
| VEGETATION:                |       |
| Single Tree                | ○     |
| Single Shrub               | ○     |
| Hedge                      | _____ |

|            |       |
|------------|-------|
| Woods Line | _____ |
| Orchard    | _____ |
| Vineyard   | _____ |

### EXISTING STRUCTURES:

|  |       |
|--|-------|
| MAJOR:                                   |       |
| Bridge, Tunnel or Box Culvert            | _____ |
| Bridge Wing Wall, Head Wall and End Wall | _____ |
| MINOR:                                   |       |
| Head and End Wall                        | _____ |
| Pipe Culvert                             | _____ |
| Footbridge                               | _____ |
| Drainage Box: Catch Basin, DI or JB      | _____ |
| Paved Ditch Gutter                       | _____ |
| Storm Sewer Manhole                      | ○     |
| Storm Sewer                              | _____ |

### UTILITIES:

\* SUE - Subsurface Utility Engineering  
LOS - Level of Service - A,B,C or D (Accuracy)

|   |       |
|---|-------|
| POWER:                                  |       |
| Existing Power Pole                     | ●     |
| Proposed Power Pole                     | ○     |
| Existing Joint Use Pole                 | ●     |
| Proposed Joint Use Pole                 | ○     |
| Power Manhole                           | ⊙     |
| Power Line Tower                        | ⊠     |
| Power Transformer                       | ⊠     |
| U/G Power Cable Hand Hole               | ⊠     |
| H-Frame Pole                            | ●     |
| U/G Power Line Test Hole (SUE - LOS A)* | ⊙     |
| U/G Power Line (SUE - LOS B)*           | _____ |
| U/G Power Line (SUE - LOS C)*           | _____ |
| U/G Power Line (SUE - LOS D)*           | _____ |

### TELEPHONE:

|  |       |
|--|-------|
| Existing Telephone Pole                | ●     |
| Proposed Telephone Pole                | ○     |
| Telephone Manhole                      | ⊙     |
| Telephone Pedestal                     | ⊠     |
| Telephone Cell Tower                   | ⊠     |
| U/G Telephone Cable Hand Hole          | ⊠     |
| U/G Telephone Test Hole (SUE - LOS A)* | ⊙     |
| U/G Telephone Cable (SUE - LOS B)*     | _____ |
| U/G Telephone Cable (SUE - LOS C)*     | _____ |
| U/G Telephone Cable (SUE - LOS D)*     | _____ |
| U/G Telephone Conduit (SUE - LOS B)*   | _____ |
| U/G Telephone Conduit (SUE - LOS C)*   | _____ |
| U/G Telephone Conduit (SUE - LOS D)*   | _____ |
| U/G Fiber Optics Cable (SUE - LOS B)*  | _____ |
| U/G Fiber Optics Cable (SUE - LOS C)*  | _____ |
| U/G Fiber Optics Cable (SUE - LOS D)*  | _____ |

### WATER:

|   |       |
|---|-------|
| Water Manhole                           | ⊙     |
| Water Meter                             | ○     |
| Water Valve                             | ⊗     |
| Water Hydrant                           | ⊕     |
| U/G Water Line Test Hole (SUE - LOS A)* | ⊙     |
| U/G Water Line (SUE - LOS B)*           | _____ |
| U/G Water Line (SUE - LOS C)*           | _____ |
| U/G Water Line (SUE - LOS D)*           | _____ |
| Above Ground Water Line                 | _____ |

### TV:

|                                      |       |
|--------------------------------------|-------|
| TV Pedestal                          | ⊠     |
| TV Tower                             | ⊗     |
| U/G TV Cable Hand Hole               | ⊠     |
| U/G TV Test Hole (SUE - LOS A)*      | ⊙     |
| U/G TV Cable (SUE - LOS B)*          | _____ |
| U/G TV Cable (SUE - LOS C)*          | _____ |
| U/G TV Cable (SUE - LOS D)*          | _____ |
| U/G Fiber Optic Cable (SUE - LOS B)* | _____ |
| U/G Fiber Optic Cable (SUE - LOS C)* | _____ |
| U/G Fiber Optic Cable (SUE - LOS D)* | _____ |

### GAS:

|                                       |       |
|---------------------------------------|-------|
| Gas Valve                             | ◇     |
| Gas Meter                             | ⊕     |
| U/G Gas Line Test Hole (SUE - LOS A)* | ⊙     |
| U/G Gas Line (SUE - LOS B)*           | _____ |
| U/G Gas Line (SUE - LOS C)*           | _____ |
| U/G Gas Line (SUE - LOS D)*           | _____ |
| Above Ground Gas Line                 | _____ |

### SANITARY SEWER:

|   |       |
|---|-------|
| Sanitary Sewer Manhole                      | ⊙     |
| Sanitary Sewer Cleanout                     | ⊕     |
| U/G Sanitary Sewer Line                     | _____ |
| Above Ground Sanitary Sewer                 | _____ |
| SS Force Main Line Test Hole (SUE - LOS A)* | ⊙     |
| SS Force Main Line (SUE - LOS B)*           | _____ |
| SS Force Main Line (SUE - LOS C)*           | _____ |
| SS Force Main Line (SUE - LOS D)*           | _____ |

### MISCELLANEOUS:

|   |        |
|---|--------|
| Utility Pole                            | ●      |
| Utility Pole with Base                  | ⊠      |
| Utility Located Object                  | ○      |
| Utility Traffic Signal Box              | ⊠      |
| Utility Unknown U/G Line (SUE - LOS B)* | _____  |
| U/G Tank; Water, Gas, Oil               | □      |
| Underground Storage Tank, Approx. Loc.  | ⊠      |
| AG Tank; Water, Gas, Oil                | □      |
| Geoenvironmental Boring                 | ⊕      |
| Abandoned According to Utility Records  | AATUR  |
| End of Information                      | E.O.I. |



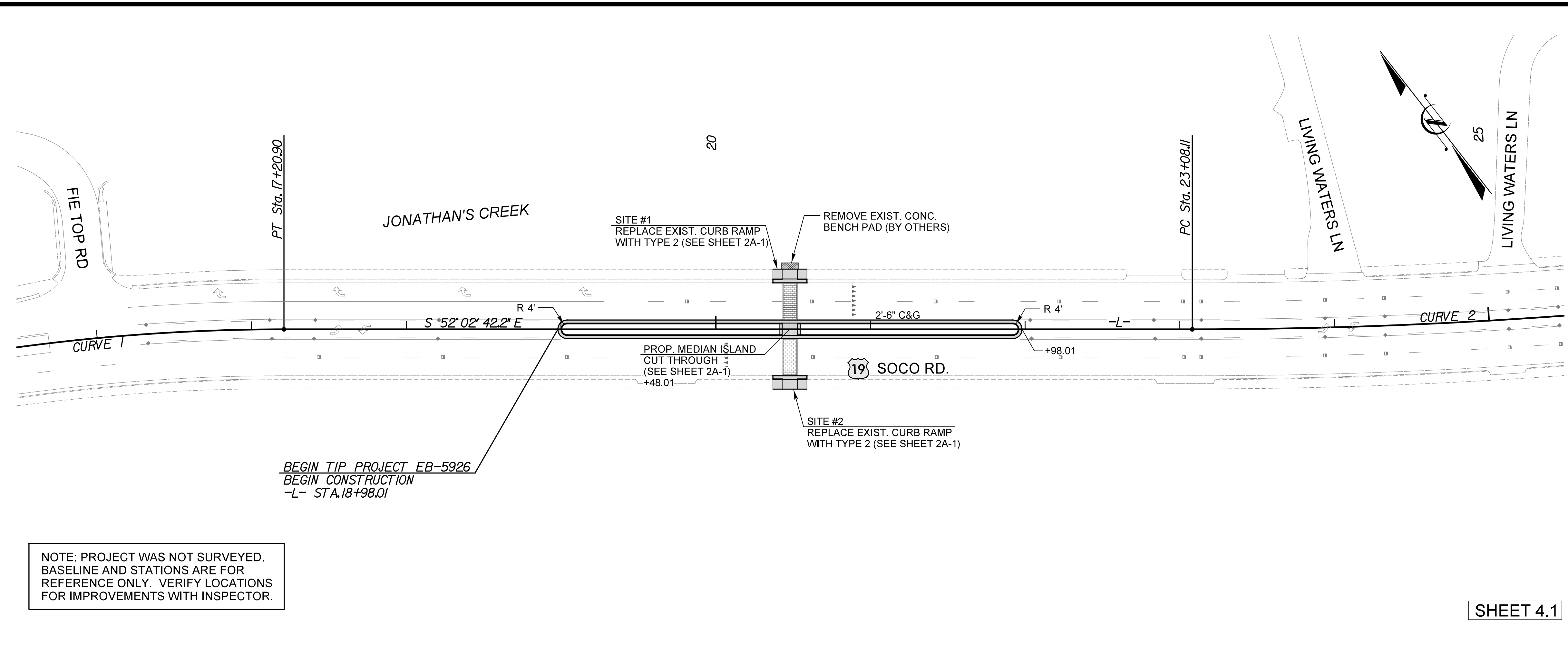
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|-------------------------|----------------|
| PROJECT REFERENCE NO.   | SHEET NO.      |
| EB-5926                 | 4              |
| MAGGIE VALLEY           | HAYWOOD COUNTY |
| ROADWAY DESIGN ENGINEER |                |
|                         |                |

Plans Prepared By:

**AMERICAN Engineering**  
 8008 CORPORATE CENTER DRIVE, SUITE 110  
 CHARLOTTE, NORTH CAROLINA 28226  
 NC Lic. No. C-3881

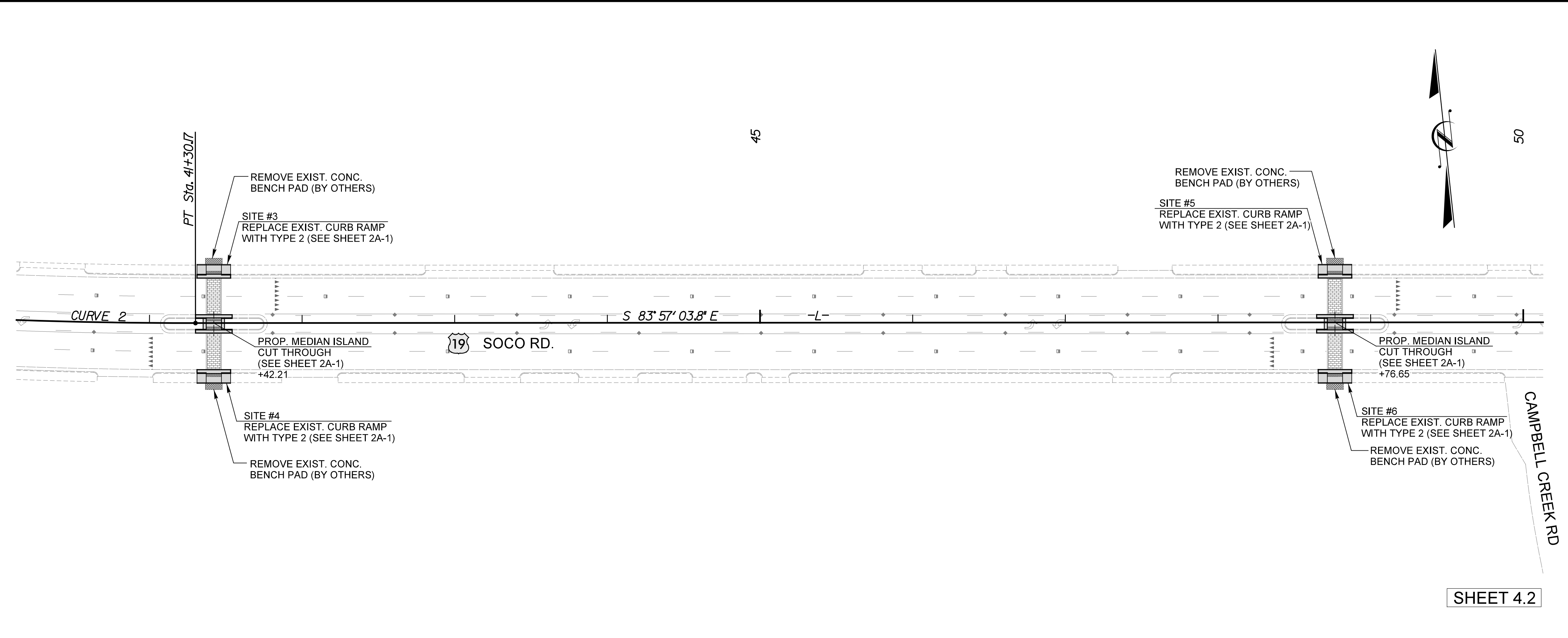
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**CURVE 1 DATA**  
 PI Sta 15+24.10  
 $\Delta = 17^\circ 41' 31.1''$  (RT)  
 $D = 4^\circ 27' 31.7''$   
 $L = 396.79'$   
 $T = 199.98'$   
 $R = 1,285.00'$

**CURVE 2 DATA**  
 PI Sta 32+43.43  
 $\Delta = 31^\circ 54' 21.6''$  (LT)  
 $D = 1^\circ 45' 03.9''$   
 $L = 1,822.06'$   
 $T = 935.33'$   
 $R = 3,272.00'$

SHEET 4.1



**CURVE 2 DATA**  
 PI Sta 32+43.43  
 $\Delta = 31^\circ 54' 21.6''$  (LT)  
 $D = 1^\circ 45' 03.9''$   
 $L = 1,822.06'$   
 $T = 935.33'$   
 $R = 3,272.00'$

SHEET 4.2

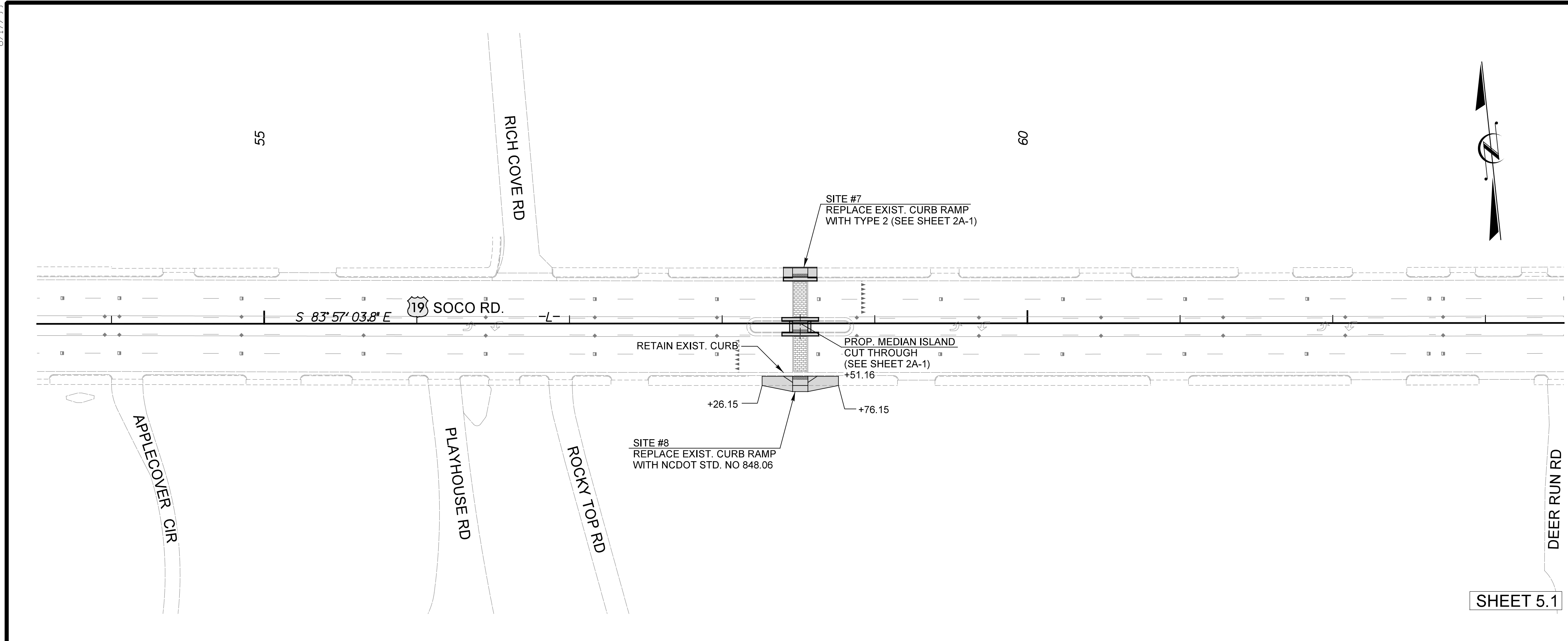
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| EB-5926                 | 5              |
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| ROADWAY DESIGN ENGINEER |                |
|                         |                |

Plans Prepared By:

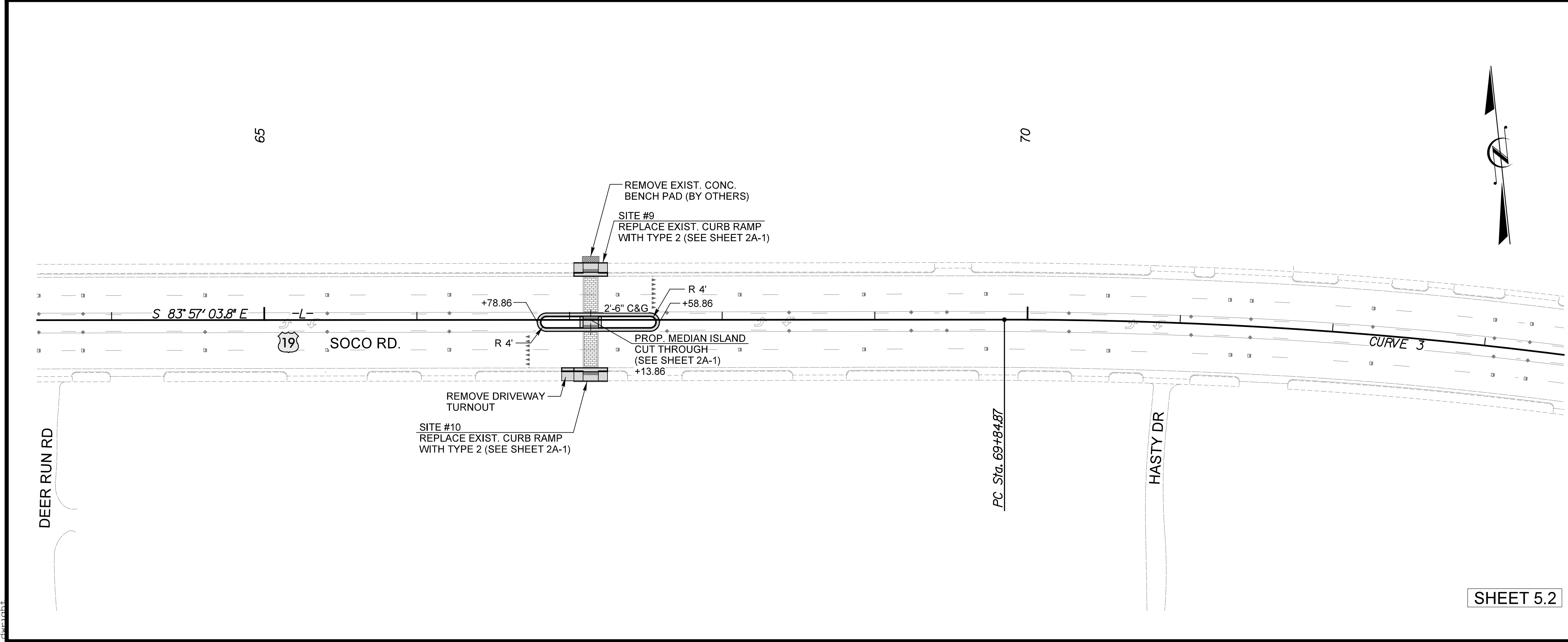
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SHEET 5.1

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SHEET 5.2

**CURVE 3 DATA**  
 PI Sta 76+77.95  
 $\Delta = 26^{\circ}55'37.6''\ (RT)$   
 $D = 1,58^{\circ}44.9''$   
 $L = 1,360.55'$   
 $T = 693.08'$   
 $R = 2,895.00'$



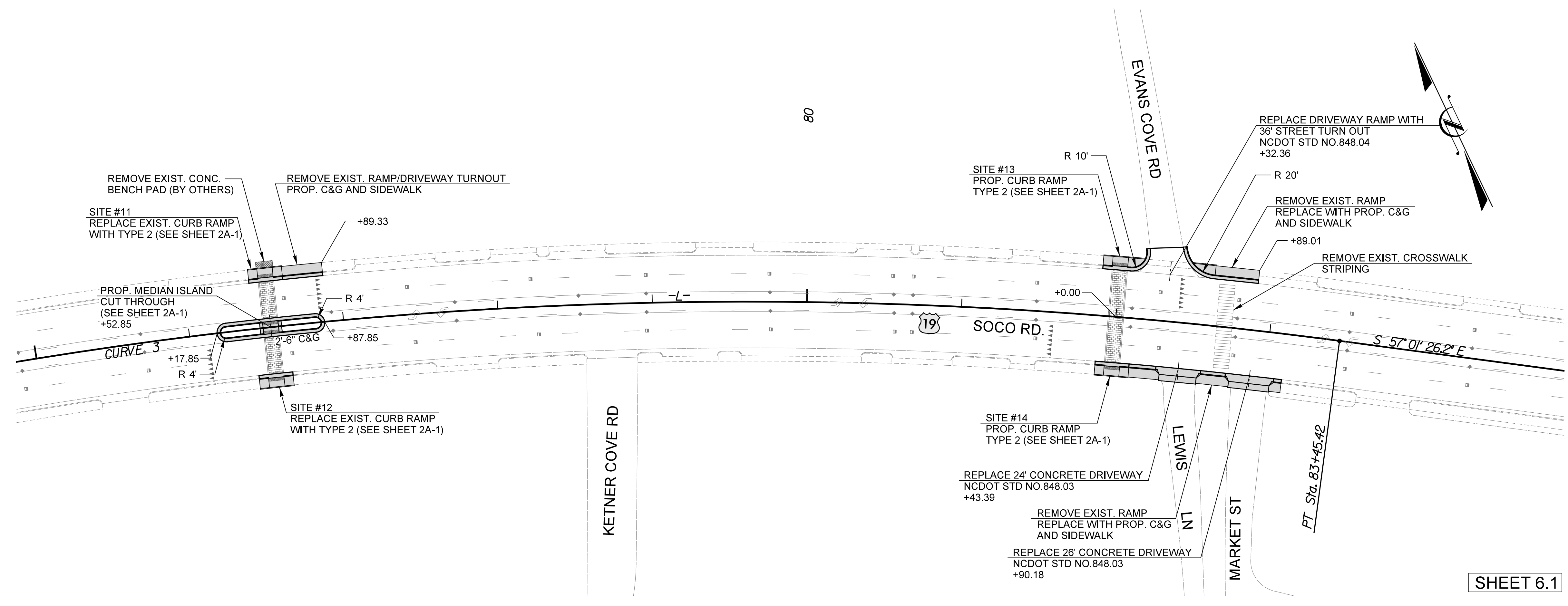
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| ROADWAY DESIGN ENGINEER |                |
|                         |                |

Plans Prepared By:

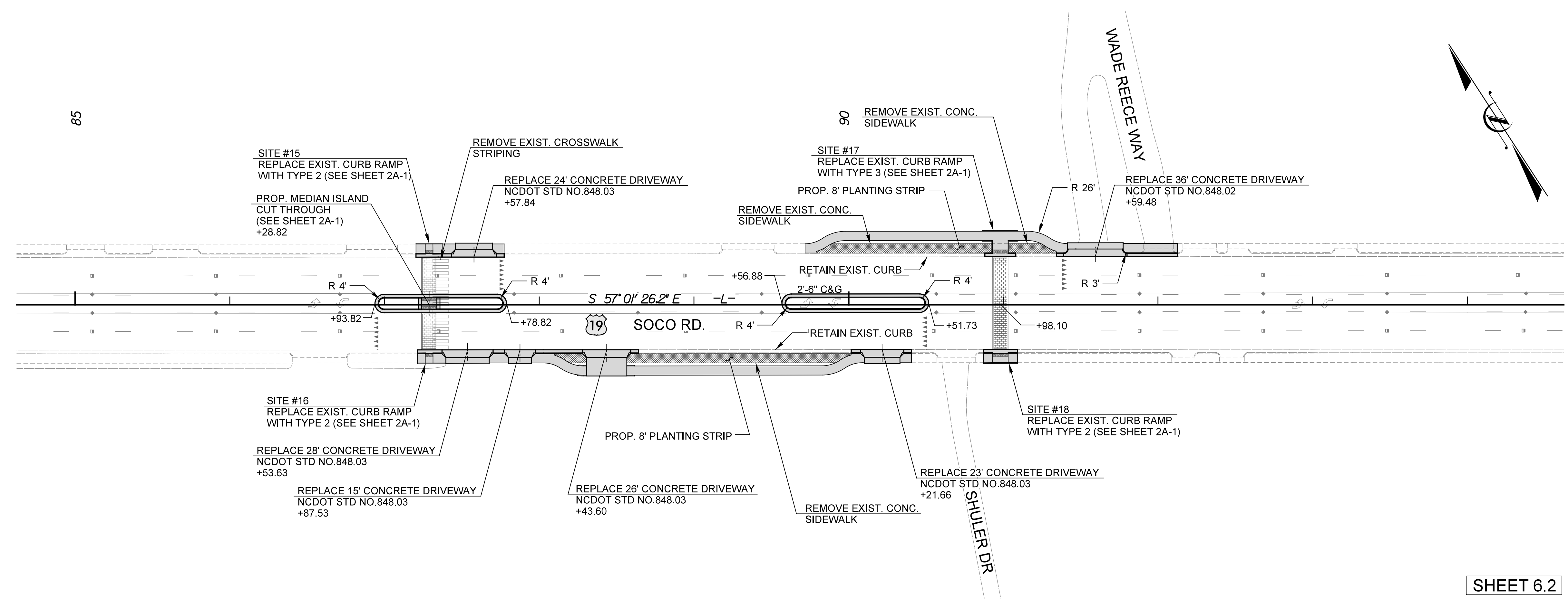
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**CURVE 3 DATA**  
 PI Sta 76+77.95  
 $\Delta = 26^\circ 55' 37.6" (RT)$   
 $D = 1,581.449'$   
 $L = 1,360.55'$   
 $T = 693.08'$   
 $R = 2,895.00'$

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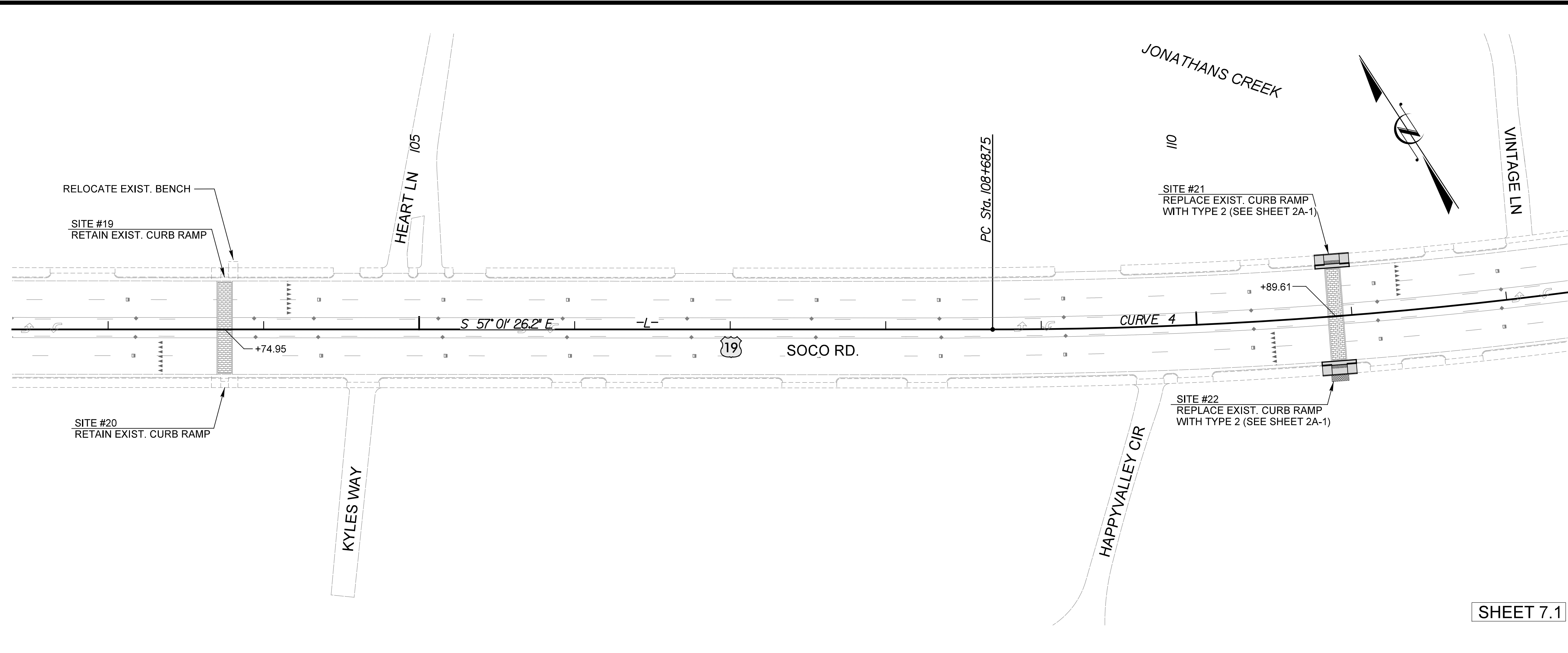
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| EB-5926                 | 7              |
| MAGGIE VALLEY           | HAYWOOD COUNTY |
| ROADWAY DESIGN ENGINEER |                |
|                         |                |

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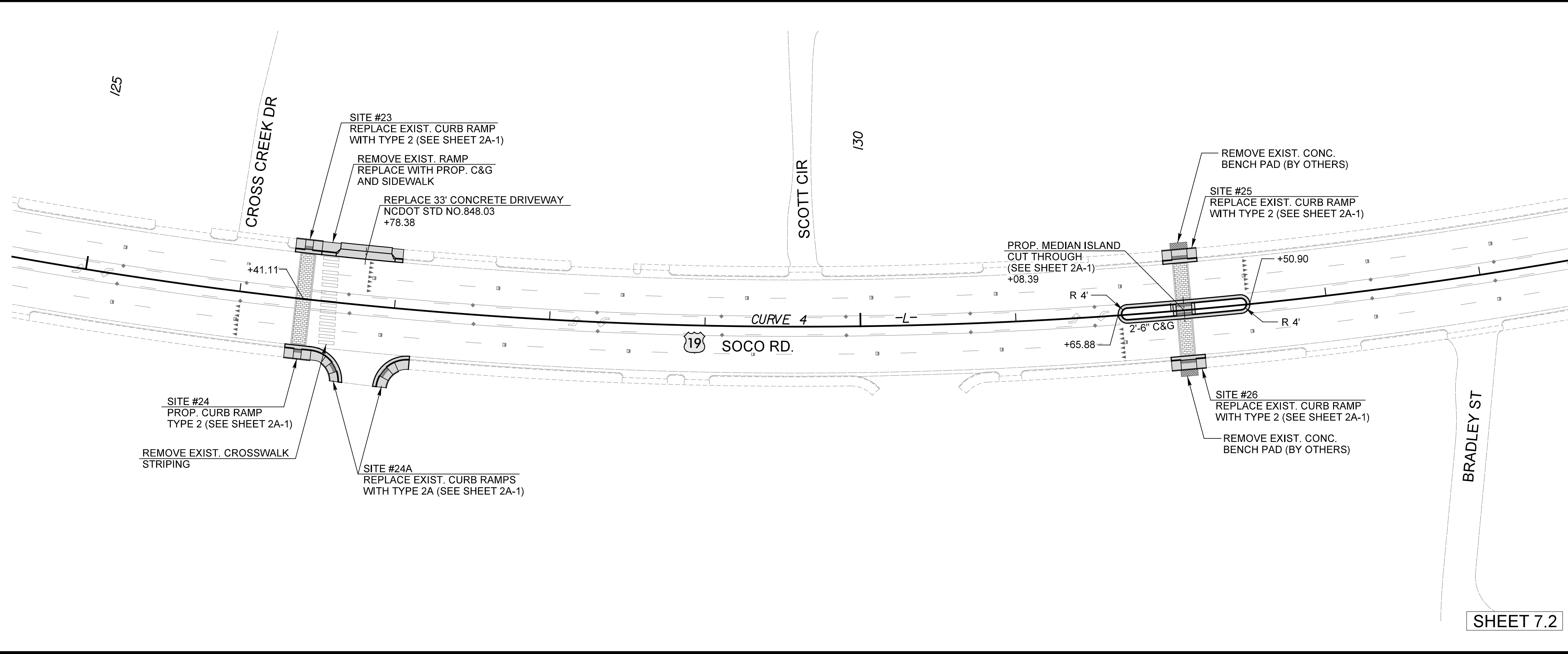
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**CURVE 4 DATA**  
 PI Sta 123+43.06  
 $\Delta = 54^{\circ}13'01.6"$  (LT)  
 $D = 1^{\circ}59'22.0"$   
 $L = 2,725.25'$   
 $T = 1,474.31'$   
 $R = 2,880.00'$

SHEET 7.1

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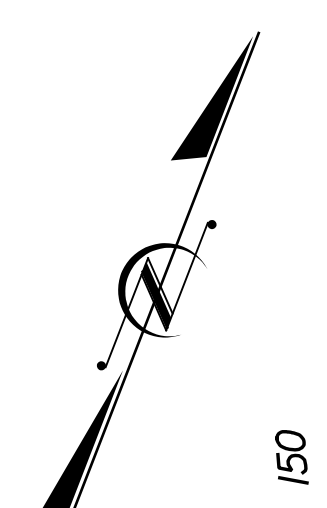
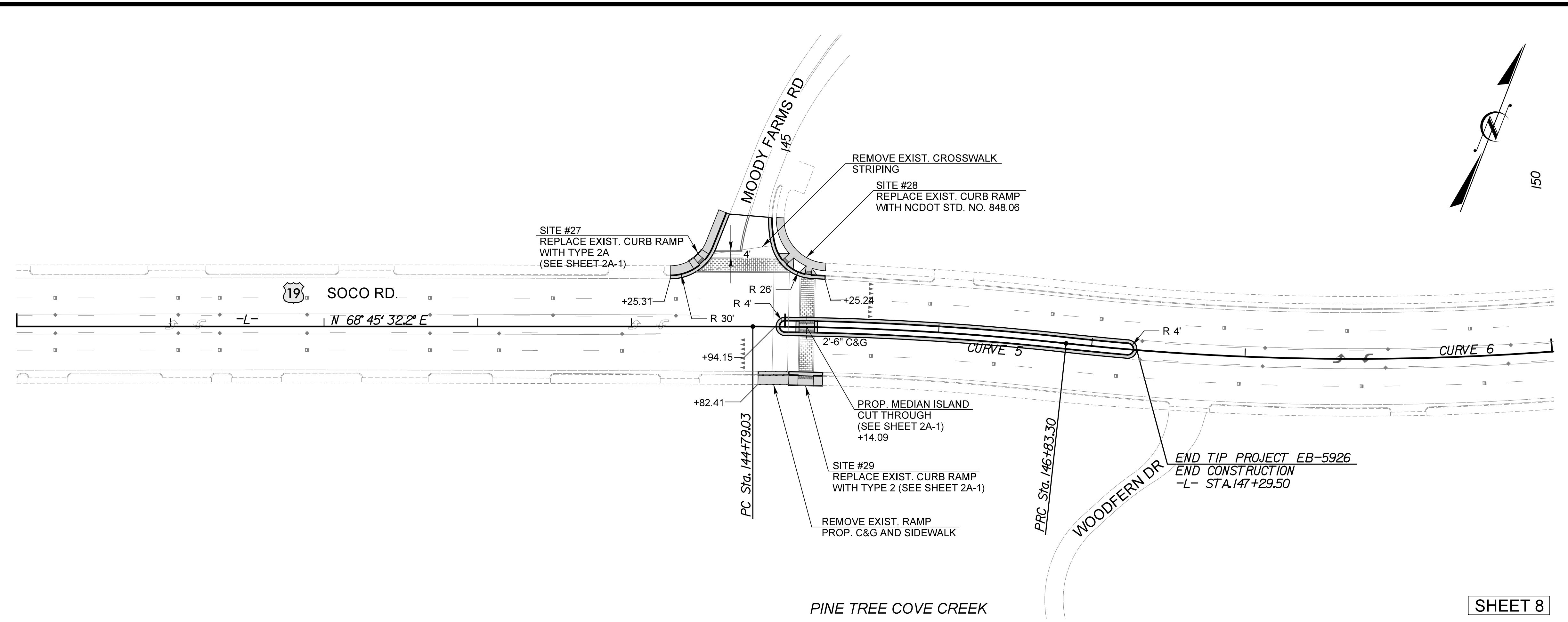


**CURVE 4 DATA**  
 PI Sta 123+43.06  
 $\Delta = 54^{\circ}13'01.6"$  (LT)  
 $D = 1^{\circ}59'22.0"$   
 $L = 2,725.25'$   
 $T = 1,474.31'$   
 $R = 2,880.00'$

SHEET 7.2



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|---|----------------|
| PROJECT REFERENCE NO.<br>EB-5926  | SHEET NO.<br>8 |
| MAGGIE VALLEY   | HAYWOOD COUNTY |
| ROADWAY DESIGN<br>ENGINEER  |                |
|   |                |
| Plans Prepared By:<br>  |                |
| 8008 CORPORATE CENTER DRIVE, SUITE 110<br>CHARLOTTE, NORTH CAROLINA 28226<br>NC Lic. No. C-3881 |                |
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**CURVE 5 DATA**  
 PI Sta 145+81.26  
 $\Delta = 6^{\circ} 09' 35.9''$  (RT)  
 $D = 3^{\circ} 00' 56.0''$   
 $L = 204.27'$   
 $T = 102.23'$   
 $R = 1,900.00'$

**CURVE 6 DATA**  
 PI Sta 148+73.22  
 $\Delta = 12^{\circ} 23' 15.0''$  (LT)  
 $D = 3^{\circ} 16' 26.6''$   
 $L = 378.35'$   
 $T = 189.92'$   
 $R = 1,750.00'$

SHEET 8