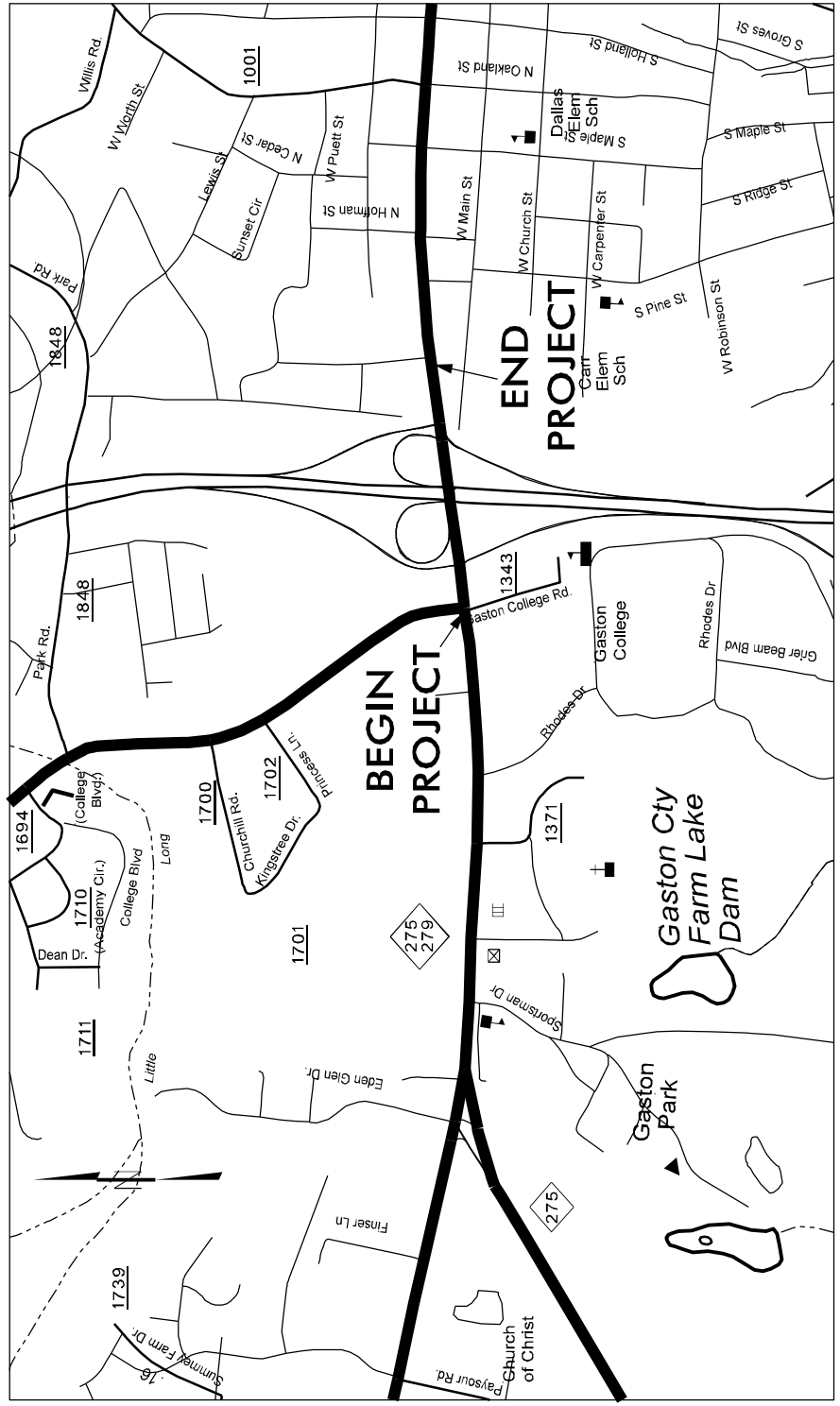


See Sheet 1-A For Index of Sheets



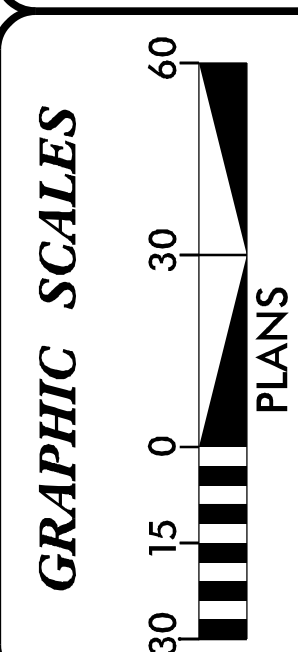
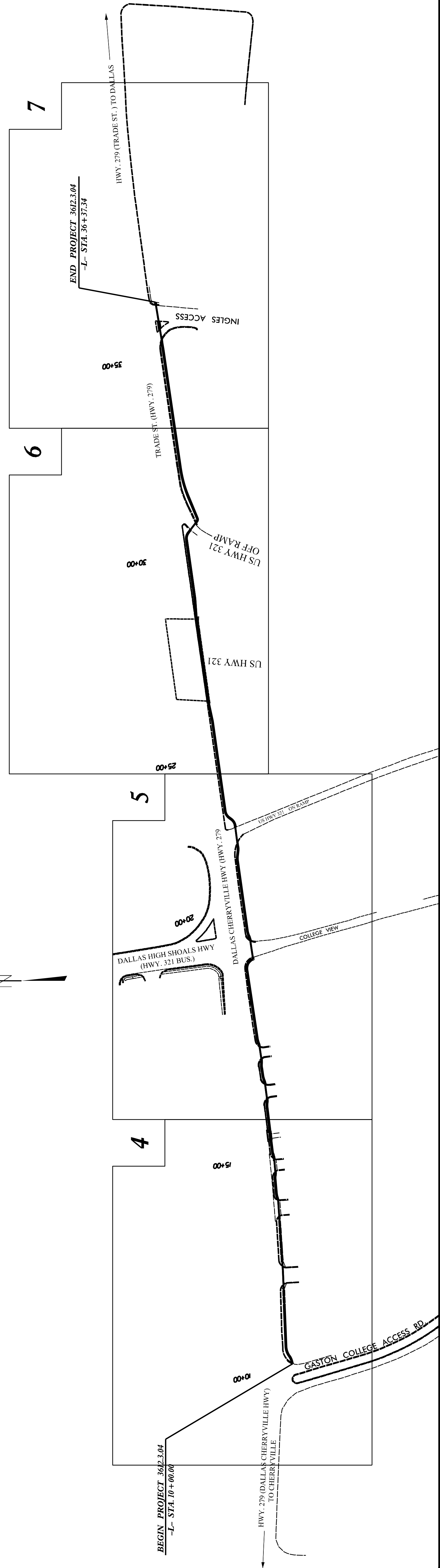
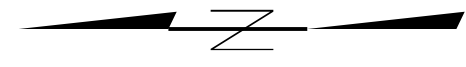
VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**GASTON COUNTY**

**LOCATION: FROM GASTON COLLEGE ACCESS ROAD TO ENTRANCE TO INGLES SUPERMARKET.**

**TYPE OF WORK: GRADING, CONCRETE SIDEWALK, WHEELCHAIR RAMPS, AND CROSSWALK PAVEMENT MARKINGS**

STATE	N.C.	STATE PROJECT REFERENCE NO.	ER-2971L	SHEET NO.	1	TOTAL SHEETS	7
STATE PROJ. NO.	3612.3.04	P.A. PROJ. NO.	STP-000S(424)	DESCRIPTION	PE		
	3612.3.04		STP-000S(424)		CONST.		



**PROJECT LENGTH**  
 LENGTH ROADWAY PROJECT WBS 3612.3.04 = 0.461 MI  
 TOTAL LENGTH PROJECT 3612.3.04 = 0.461 MI

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 1710 East Marion St., Shelby NC, 28152

2012 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
 N / A

**LETTING DATE:**  
 July 10, 2012

**M.E. STAFFORD, P.E.**  
 PROJECT ENGINEER

**R.E. HUMPHRIES, PLS**  
 PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

M.L. HOLDER  
 STATE HIGHWAY DESIGN ENGINEER P.E.

**TIP PROJECT: ER-2971L**

CONTRACT: \$\$\$\$\$\$ USERNAME\$\$\$\$\$ \$\$\$\$\$\$ SYSTEM\$\$\$\$\$ \$\$\$\$\$\$ DCON\$\$\$\$\$ \$\$\$\$\$\$

INDEX OF SHEETS	2012 SPECIFICATIONS	2012 ROADWAY ENGLISH STANDARD DRAWINGS
SHEET NUMBER	EFFECTIVE: 01-17-12 REVISED: 11/01/11	The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:
1	GENERAL NOTES:	STD. NO. TITLE
1-A	CLEARING: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.	200.02 Method of Clearing - Method 11
1-B	DRIVEWAYS:	DIVISION 8 - INCIDENTALS
2	DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.	848.01 Concrete Sidewalk
3	SUBSURFACE PLANS:	848.02 Driveway Turnout - Radius Type
4 THRU 7	NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.	848.06 Curb Ramp - Existing Curb & Gutter
	CURB RAMPS	
	CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. Error: 2023	

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.  
ER-2971L

SHEET NO.  
1-B

# CONVENTIONAL PLAN SHEET SYMBOLS

### BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin
- Property Corner
- Property Monument
- Parcel/Sequence Number
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary
- Proposed Wetland Boundary
- Existing Endangered Animal Boundary
- Existing Endangered Plant Boundary

### BUILDINGS AND OTHER CULTURE:

- Gas Pump
- Sign
- Well
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

### HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream
- Buffer Zone 1
- Buffer Zone 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:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line
- Proposed Right of Way Line with Iron Pin and Cap Marker
- Proposed Right of Way Line with Concrete or Granite Marker
- Existing Control of Access
- Proposed Control of Access
- Existing Easement Line
- Proposed Temporary Construction Easement
- Proposed Temporary Drainage Easement
- Proposed Permanent Drainage Easement
- Proposed Permanent Drainage / Utility Easement
- Proposed Permanent Utility Easement
- Proposed Temporary Utility Easement
- Proposed Permanent Easement with Iron Pin and Cap Marker

### ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut
- Proposed Slope Stakes Fill
- Proposed Wheel Chair 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:

- POWER:
  - Existing Power Pole
  - Proposed Power Pole
  - Existing Joint Use Pole
  - Proposed Joint Use Pole
  - Power Manhole
  - Power Line Tower
  - Power Transformer
  - UG Power Cable Hand Hole
  - H-Frame Pole
  - Recorded UG Power Line
  - Designated UG Power Line (S.U.E.\*)

### TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole
- Telephone Booth
- Telephone Pedestal
- Telephone Cell Tower
- UG Telephone Cable Hand Hole
- Recorded UG Telephone Cable
- Designated UG Telephone Cable (S.U.E.\*)
- Recorded UG Telephone Conduit
- Designated UG Telephone Conduit (S.U.E.\*)
- Recorded UG Fiber Optics Cable
- Designated UG Fiber Optics Cable (S.U.E.\*)

### WATER:

- Water Manhole
- Water Meter
- Water Valve
- Water Hydrant
- Recorded UG Water Line
- Designated UG Water Line (S.U.E.\*)
- Above Ground Water Line

### TV:

- TV Satellite Dish
- TV Pedestal
- TV Tower
- UG TV Cable Hand Hole
- Recorded UG TV Cable
- Designated UG TV Cable (S.U.E.\*)
- Recorded UG Fiber Optic Cable
- Designated UG Fiber Optic Cable (S.U.E.\*)

### GAS:

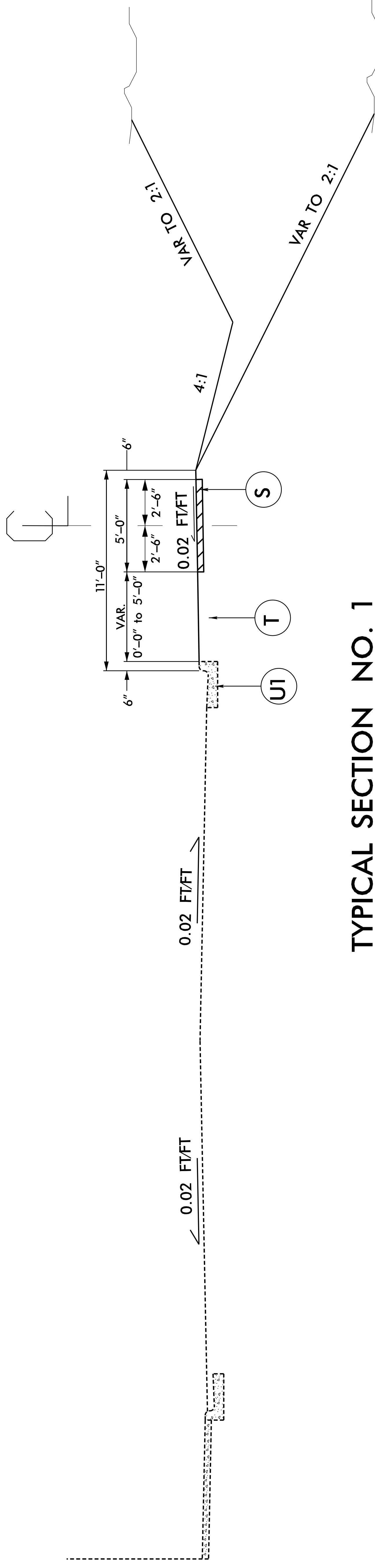
- Gas Valve
- Gas Meter
- Recorded UG Gas Line
- Designated UG Gas Line (S.U.E.\*)
- Above Ground Gas Line

### SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- UG Sanitary Sewer Line
- Above Ground Sanitary Sewer
- Recorded SS Forced Main Line
- Designated SS Forced Main Line (S.U.E.\*)

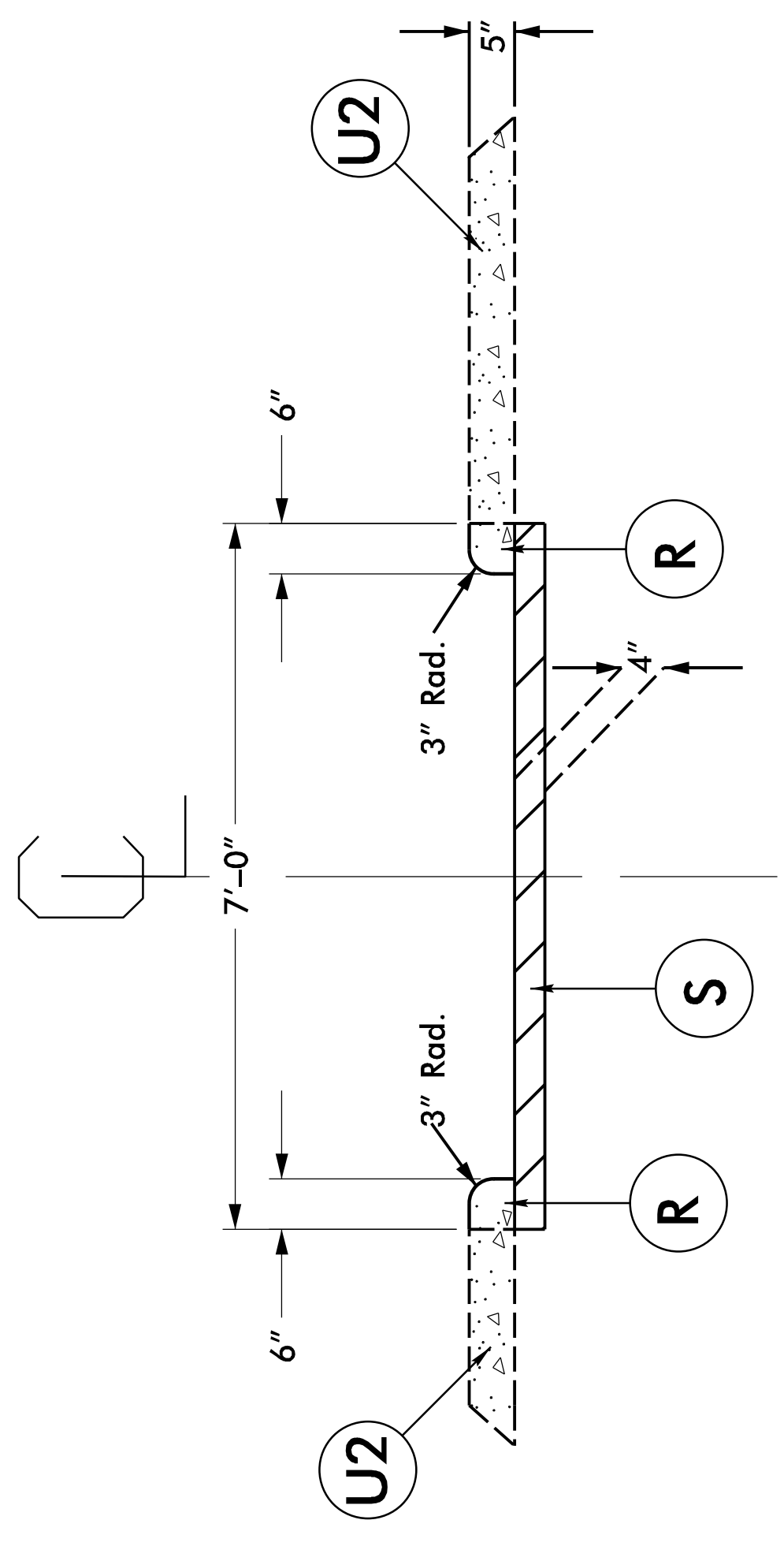
### MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box
- Utility Unknown UG Line
- UG Tank; Water, Gas, Oil
- AG Tank; Water, Gas, Oil
- UG Test Hole (S.U.E.\*)
- Abandoned According to Utility Records
- End of Information



### TYPICAL SECTION NO. 1

USE TYPICAL SECTION No. 1  
 STA. 10 + 00.00 TO 26 + 43.02  
 &  
 STA. 28 + 44.49 TO 36 + 37.34



### TYPICAL SECTION NO. 2

USE TYPICAL SECTION No. 2 TO MODIFY CONCRETE ISLAND AT ENTRANCE TO INGLES SHOPPING CENTER

PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
R	PROPOSED 6" CONCRETE CURB
S	PROPOSED 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U1	EXISTING CONCRETE CURB & GUTTER
U2	EXISTING 5" CONCRETE ISLAND

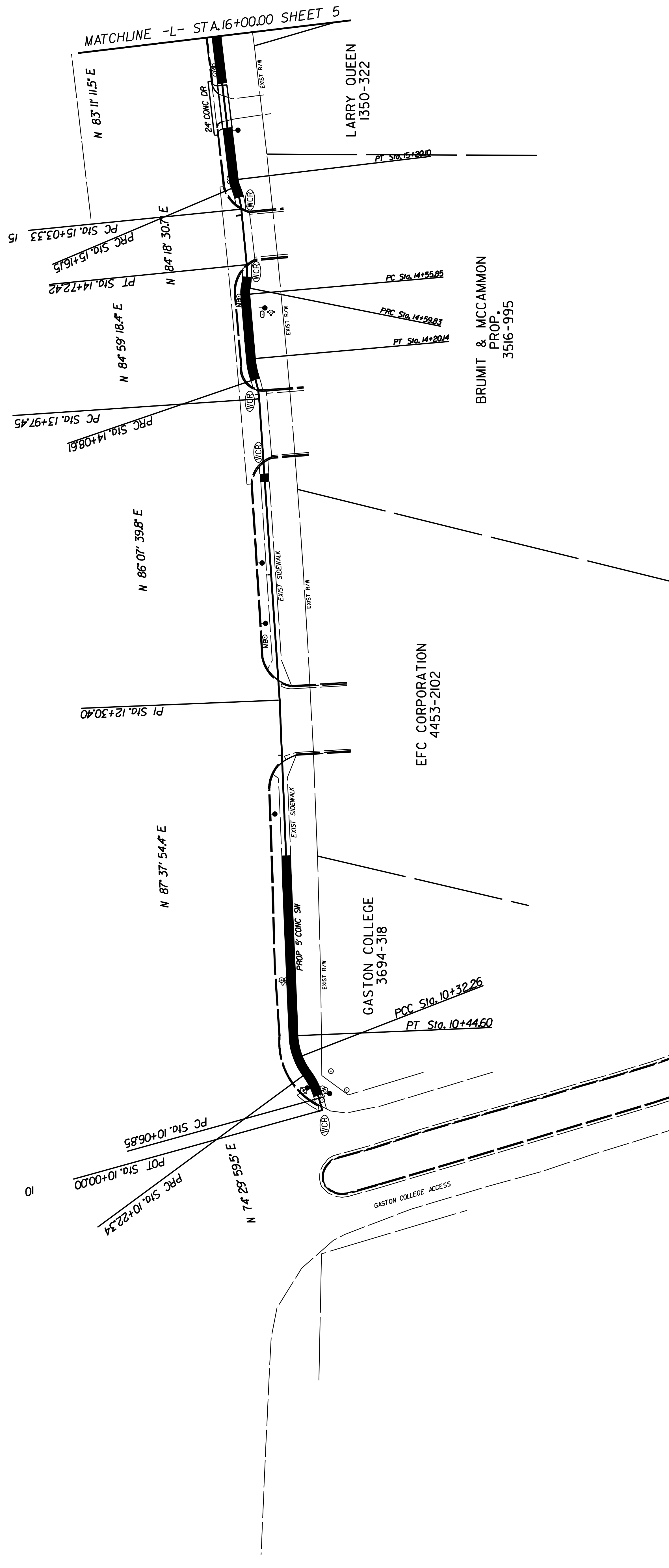
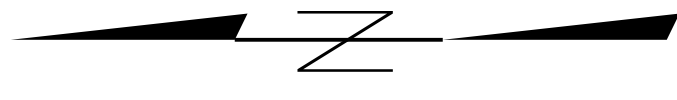
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	SECTION	QUANTITY
0000100000-N	MOBILIZATION	LS	800	1
0000400000-N	CONSTRUCTION SURVEYING	LS	801	1
0000900000-N	GENERIC MISCELLANEOUS ITEM (MODIFY CONCRETE ISLAND)	LS	SP	1
0043000000-N	GRADING	LS	226	1
0050000000-E	SUPPLEMENTARY CLEARING & GRUBBING	ACR	226	1
1220000000-E	INCIDENTAL STONE BASE	TON	545	10
2591000000-E	4" CONCRETE SIDEWALK	SY	848	988
2605000000-N	CONCRETE CURB RAMP	EA	848	19
2612000000-E	6" CONCRETE DRIVEWAY	SY	848	29
4697000000-E	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	LF	1205	285
4710000000-E	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	LF	1205	215
4850000000-E	REMOVAL OF PAVEMENT MARKING LINES (4")	LF	1205	50
4870000000-E	REMOVAL OF PAVEMENT MARKING LINES (24")	LF	1205	45
6000000000-E	TEMPORARY SILT FENCE	LF	1605	1000
6084000000-E	SEEDING & MULCHING	ACR	1660	1.5

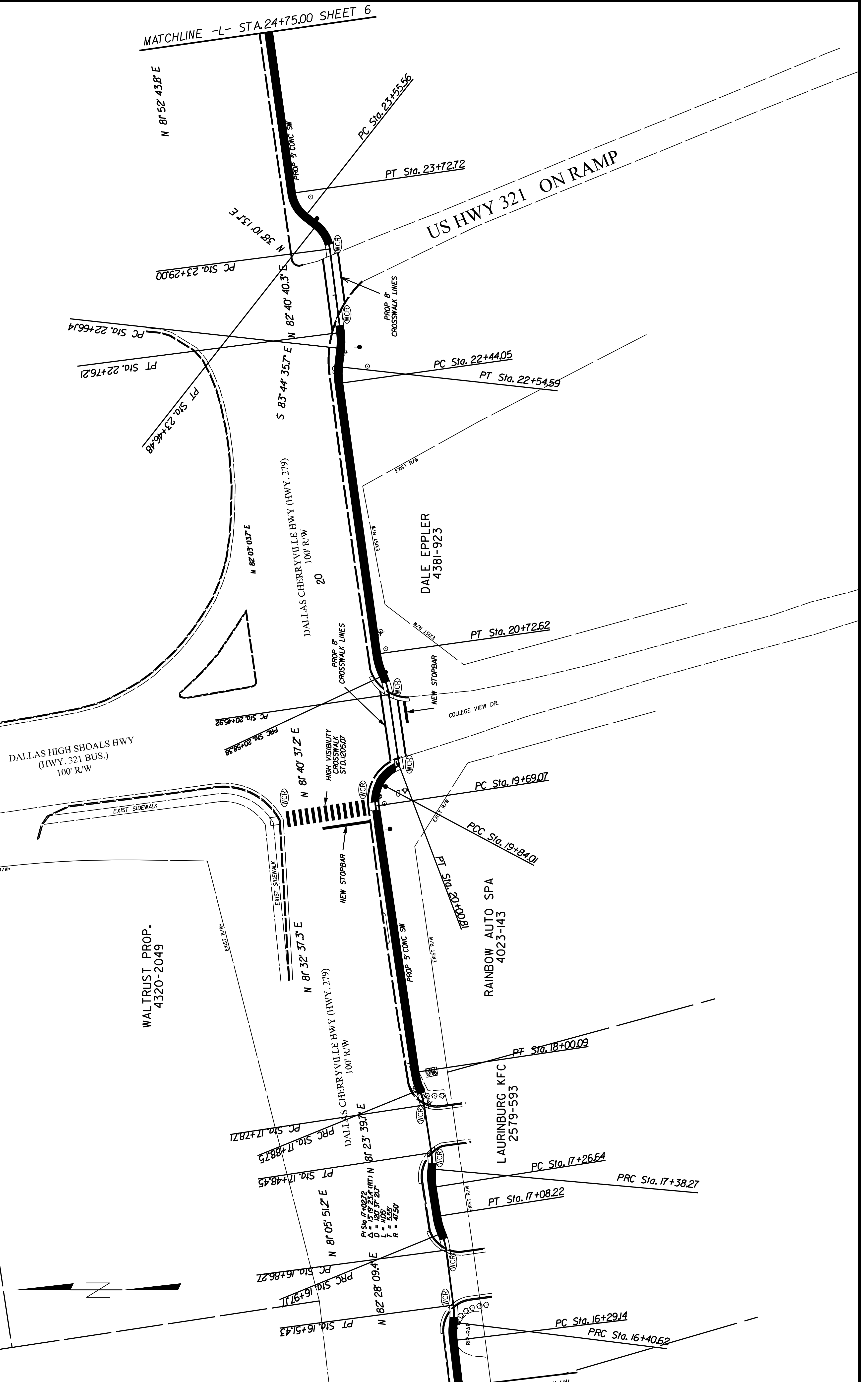
PROJECT REFERENCE NO.	ER-297/L	SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		

PI Sta. 10+168 $\Delta = 24' 52" 54.7$ (LT) $L = 154' 46" 48.0$ $T = 78.3'$ $R = 42.50'$	PI Sta. 10+273.3 $\Delta = 152' 06.9$ (RT) $L = 95' 47" 13.5$ $T = 49.9'$ $R = 37.50'$	PI Sta. 10+38.09 $\Delta = 16' 57" 46.5$ (RT) $L = 123.3'$ $T = 62.2'$ $R = 37.50'$	PI Sta. 10+320.6 $\Delta = 134' 18" 48.0$ (LT) $L = 116.6'$ $T = 56.6'$ $R = 42.50'$	PI Sta. 14+141 $\Delta = 130' 37" 20'$ (RT) $L = 113.3'$ $T = 57.9'$ $R = 47.50'$	PI Sta. 14+57.85 $\Delta = 16' 57" 46.5$ (RT) $L = 123.3'$ $T = 62.2'$ $R = 40.00'$	PI Sta. 14+66.7 $\Delta = 16' 57" 46.5$ (LT) $L = 123.3'$ $T = 62.2'$ $R = 42.50'$	PI Sta. 15+09.79 $\Delta = 16' 57" 46.5$ (LT) $L = 123.3'$ $T = 62.2'$ $R = 42.50'$	PI Sta. 15+81.4 $\Delta = 16' 09" 11.4$ (RT) $L = 398' 36" 40.3'$ $T = 199'$ $R = 140.2'$
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PROJECT REFERENCE NO.	ER-297/L
R/W SHEET NO.	5
HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER	

PI Sta. 16+34.91 $\Delta = 15^{\circ} 51' 07"$ (RT) $D = 120.37$ $L = 5.77$ $R = 47.50$	PI Sta. 16+46.05 $\Delta = 14^{\circ} 44' 12"$ (LT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 16+91.75 $\Delta = 14^{\circ} 44' 16"$ (LT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 17+32.48 $\Delta = 14^{\circ} 01' 21"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 17+43.38 $\Delta = 13^{\circ} 43' 33"$ (LT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 17+94.44 $\Delta = 15^{\circ} 47' 30"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 19+76.80 $\Delta = 36^{\circ} 33' 13"$ (RT) $D = 43.98$ $L = 7.74$ $R = 23.43$	PI Sta. 19+84.01 $\Delta = 15^{\circ} 47' 30"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 20+45.55 $\Delta = 17^{\circ} 07' 16"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 20+52.20 $\Delta = 16^{\circ} 47' 48"$ (LT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 20+55.55 $\Delta = 17^{\circ} 07' 16"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 22+49.34 $\Delta = 14^{\circ} 12' 20"$ (RT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 23+46.58 $\Delta = 45^{\circ} 42' 30"$ (RT) $D = 29.48$ $L = 17.48$ $R = 22.50$	PI Sta. 23+49.34 $\Delta = 45^{\circ} 42' 30"$ (RT) $D = 29.48$ $L = 17.48$ $R = 22.50$
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PROJECT REFERENCE NO.	ER-297/L
R/W SHEET NO.	5
HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER	

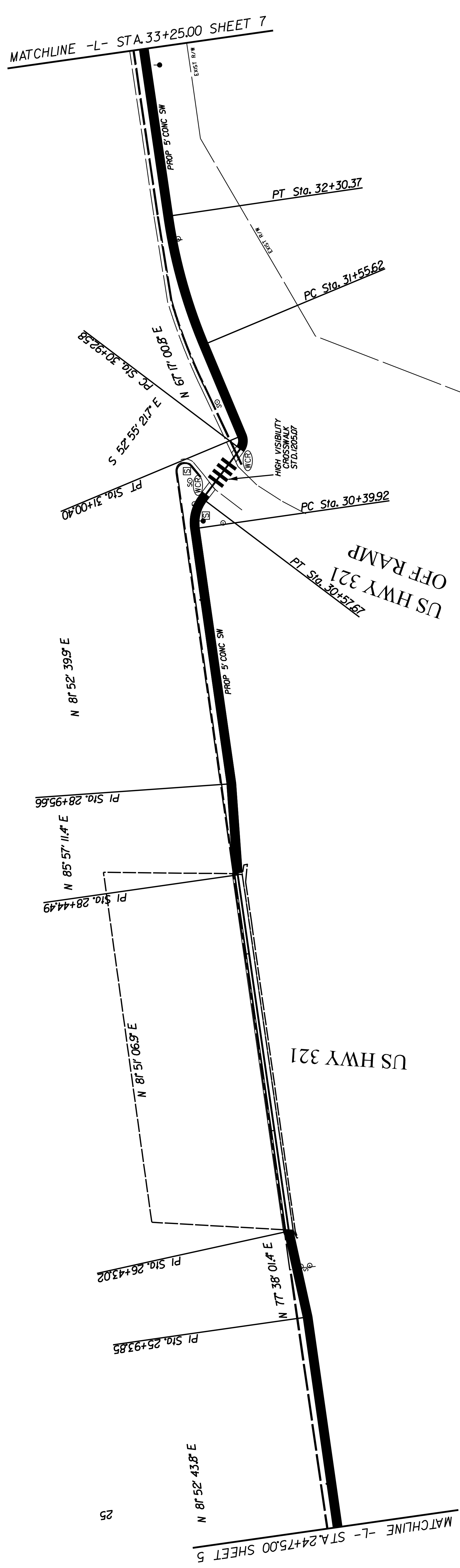
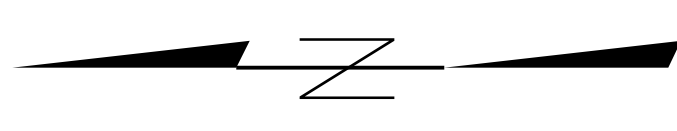
PI Sta. 16+34.91 $\Delta = 15^{\circ} 51' 07"$ (RT) $D = 120.37$ $L = 5.77$ $R = 47.50$	PI Sta. 16+46.05 $\Delta = 14^{\circ} 44' 12"$ (LT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 16+91.75 $\Delta = 14^{\circ} 44' 16"$ (LT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 17+32.48 $\Delta = 14^{\circ} 01' 21"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 17+43.38 $\Delta = 13^{\circ} 43' 33"$ (LT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 17+94.44 $\Delta = 15^{\circ} 47' 30"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 19+76.80 $\Delta = 36^{\circ} 33' 13"$ (RT) $D = 43.98$ $L = 7.74$ $R = 23.43$	PI Sta. 19+84.01 $\Delta = 15^{\circ} 47' 30"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 20+45.55 $\Delta = 17^{\circ} 07' 16"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 20+52.20 $\Delta = 16^{\circ} 47' 48"$ (LT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 20+55.55 $\Delta = 17^{\circ} 07' 16"$ (RT) $D = 120.37$ $L = 11.59$ $R = 47.50$	PI Sta. 22+49.34 $\Delta = 14^{\circ} 12' 20"$ (RT) $D = 134.48$ $L = 10.34$ $R = 42.50$	PI Sta. 23+46.58 $\Delta = 45^{\circ} 42' 30"$ (RT) $D = 29.48$ $L = 17.48$ $R = 22.50$	PI Sta. 23+49.34 $\Delta = 45^{\circ} 42' 30"$ (RT) $D = 29.48$ $L = 17.48$ $R = 22.50$
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PROJECT REFERENCE NO.	ER-297/L
R/W SHEET NO.	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PI Sta. 30+49.29  
 $\Delta = 45.1' 58.6" (RT)$   
 $D = 175.38' 52.5"$   
 $L = 9.37'$   
 $R = 22.50'$

PI Sta. 30+96.89  
 $\Delta = 59.47' 37.6" (LT)$   
 $D = 76.3' 56.37"$   
 $L = 7.23'$   
 $R = 7.50'$

PI Sta. 31+33.19  
 $\Delta = 14.23' 46.4" (RT)$   
 $D = 19.19' 32.7"$   
 $L = 4.87'$   
 $R = 297.50'$





PROJECT REFERENCE NO. <b>ER-297/L</b>	SHEET NO. <b>7</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

