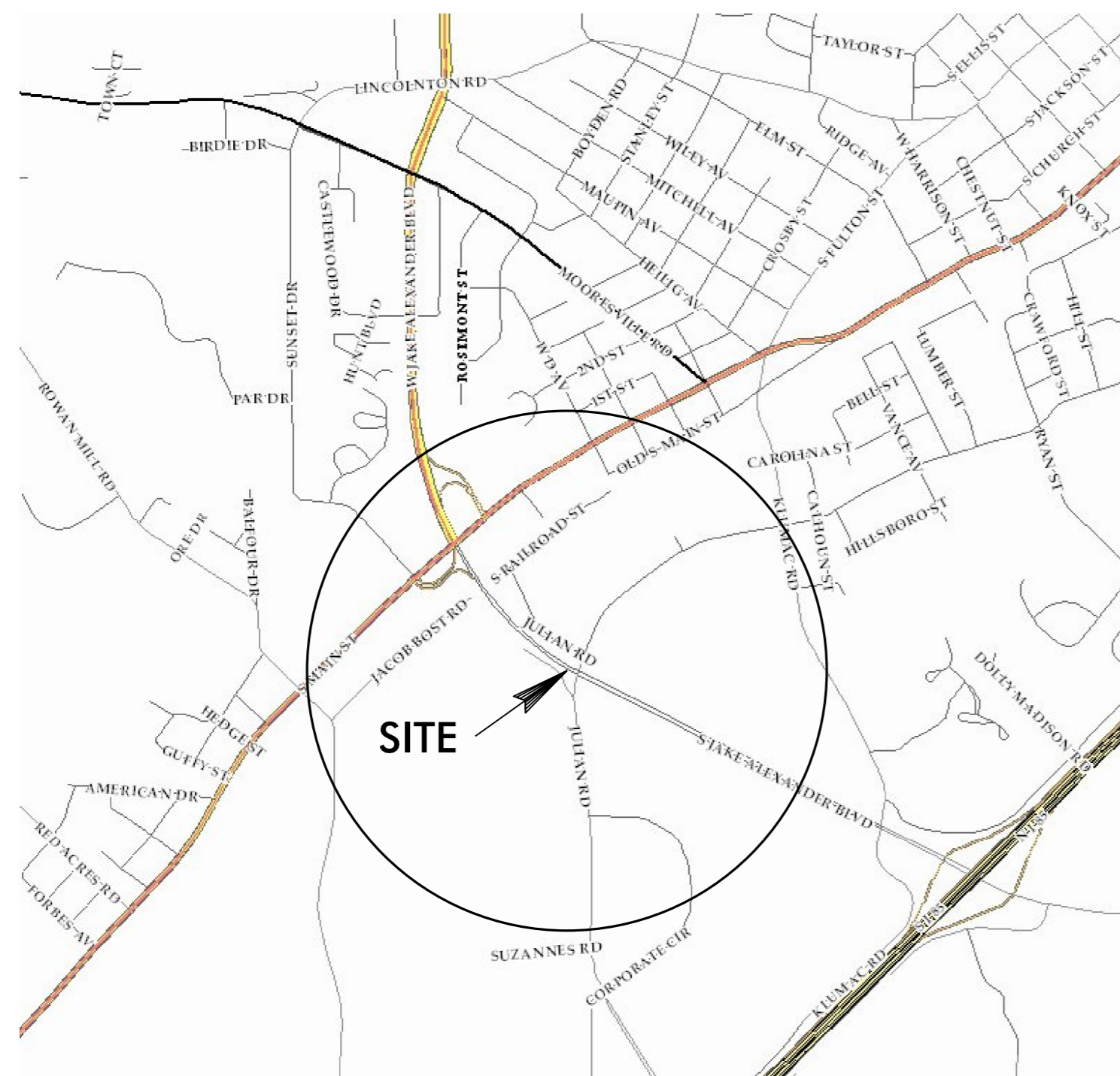


**TIP PROJECT: Y-4809L**

**CONTRACT: 40325.3.56**



VICINITY MAP

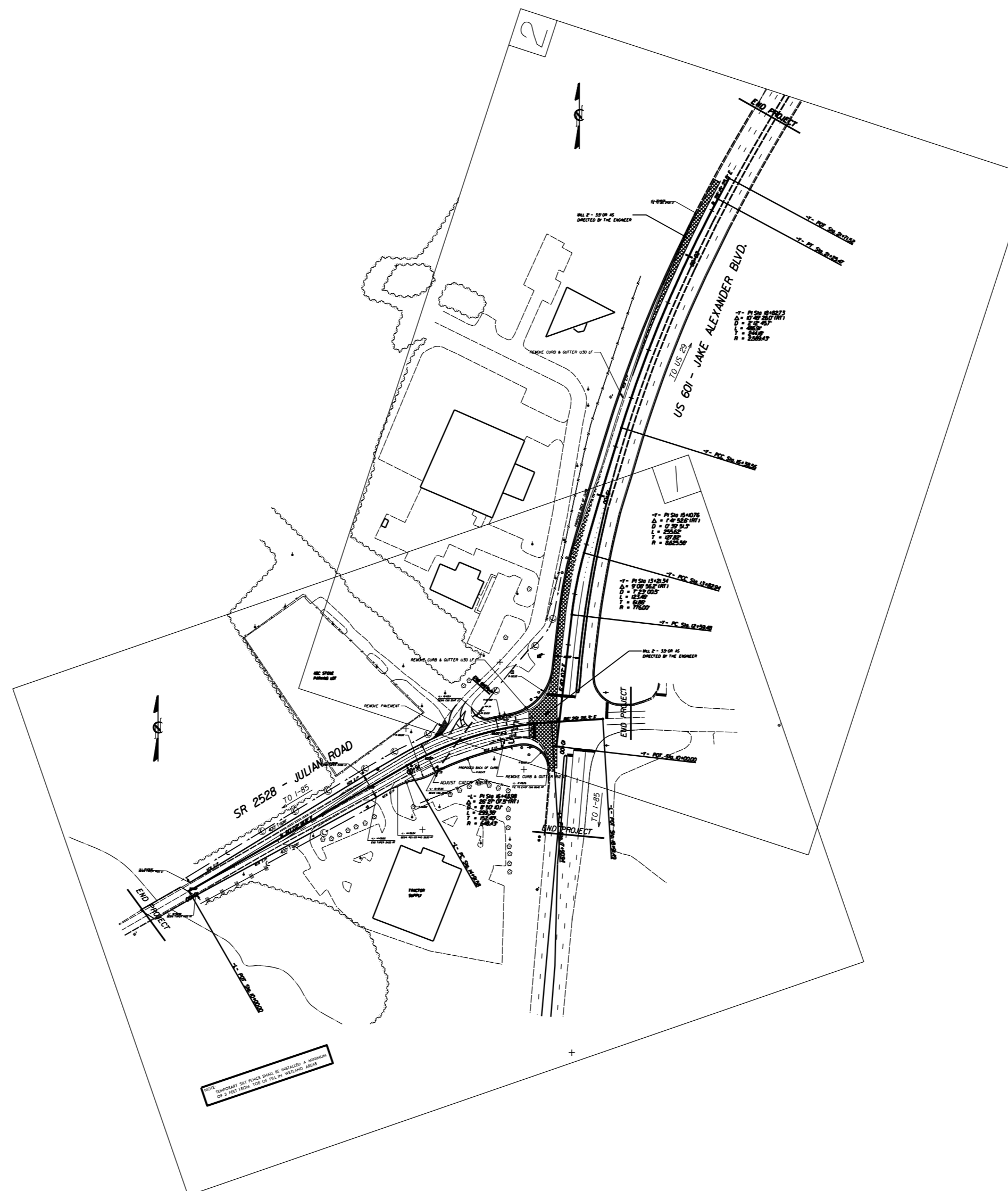
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**ROWAN COUNTY**

**LOCATION: AT THE INTERSECTION OF SR 2528 - JULIAN RD.  
 & US 601 - JAKE ALEXANDER BLVD.**

**TYPE OF WORK: GRADING, WIDENING, CURB & GUTTER, & PAVING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	40325.3.56	1	6
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



**INCOMPLETE PLANS**  
 DO NOT USE FOR R/W ACQUISITION  
**PRELIMINARY PLANS**  
 DO NOT USE FOR CONSTRUCTION

**SCALES**

SHEETS P-1 & P-2  
 1" = 50'

**DESIGN DATA**

ADT =  
 ADT =  
 DHV = %  
 D = %  
 T = % \*  
 V = MPH  
 \* TTST = DUAL  
 FUNC CLASS =

**PROJECT LENGTH**

**KLUMAC ROAD OFFSITE DETOUR**

-L- SR 2528 - JULIAN RD. = .015 miles  
 -Y- US 601 - JAKE ALEXANDER BLVD. = 0.22 miles

TIER

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
**DIVISION NINE, DISTRICT ONE**  
 4770 S. MAIN ST., SALISBURY, NC 28147

2012 STANDARD SPECIFICATIONS

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

**LETTING DATE:**  
 JUNE 1, 2012

**CHRIS T. CORRIHER, PE**  
 PROJECT ENGINEER

**BRIAN L. CHILDRESS**  
 PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**DIVISION OF HIGHWAYS**  
**STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER

04/16/11

Note: Not to Scale

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

# CONVENTIONAL PLAN SHEET SYMBOLS

## BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	----->
Property 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	--- MLB ---
Proposed Wetland Boundary	--- MLB ---
Existing Endangered Animal Boundary	--- EAB ---
Existing Endangered Plant Boundary	--- EPB ---
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	?? ??

## BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
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	← FLOW
False Sump	▽

## RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION MILEPOST 35
Switch	□ 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	○ R/W
Proposed Right of Way Line with Iron Pin and Cap Marker	○ R/W ▲
Proposed Right of Way Line with Concrete or Granite Marker	○ R/W ▲
Existing Control of Access	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	--- E ---
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:

Proposed Permanent Easement with Iron Pin and Cap Marker	◆
Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	--- C ---
Proposed Slope Stakes Fill	--- F ---
Proposed Curb Ramp	○ CR
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	□ Vineyard

## EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	□ CONC
Bridge Wing Wall, Head Wall and End Wall	□ CONC WW
MINOR:	
Head and End Wall	□ CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ S
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	⊗
U/G Power Cable Hand Hole	□
H-Frame Pole	●
Recorded U/G Power Line	--- P ---
Designated U/G Power Line (S.U.E.*)	--- P ---

## TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	□
Telephone Pedestal	⊕
Telephone Cell Tower	⊗
U/G Telephone Cable Hand Hole	□
Recorded U/G Telephone Cable	--- T ---
Designated U/G Telephone Cable (S.U.E.*)	--- T ---
Recorded U/G Telephone Conduit	--- TC ---
Designated U/G Telephone Conduit (S.U.E.*)	--- TC ---
Recorded U/G Fiber Optics Cable	--- T FO ---
Designated U/G Fiber Optics Cable (S.U.E.*)	--- T FO ---

## WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	--- W ---
Designated U/G Water Line (S.U.E.*)	--- W ---
Above Ground Water Line	--- A/G Water ---

## TV:

TV Satellite Dish	⊕
TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	□
Recorded U/G TV Cable	--- TV ---
Designated U/G TV Cable (S.U.E.*)	--- TV ---
Recorded U/G Fiber Optic Cable	--- TV FO ---
Designated U/G Fiber Optic Cable (S.U.E.*)	--- TV FO ---

## GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	--- G ---
Designated U/G Gas Line (S.U.E.*)	--- G ---
Above Ground Gas Line	--- A/G Gas ---

## SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	--- SS ---
Above Ground Sanitary Sewer	--- A/G Sanitary Sewer ---
Recorded SS Forced Main Line	--- FSS ---
Designated SS Forced Main Line (S.U.E.*)	--- FSS ---

## MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	--- ?U/L ---
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.






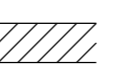




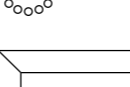
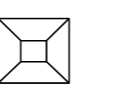
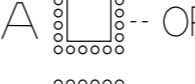
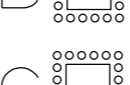








PROJECT REFERENCE NO. 40325.3.56	SHEET NO. 3
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# EROSION & SEDIMENT CONTROL SYMBOLOGY

## EROSION CONTROL

- Std. No. 1630.03 Temporary Silt Ditch ..... 
- Std. No. 1630.05 Temporary Diversion ..... 
- Std. No. 1605.01 Temporary Silt Fence ..... 
- Std. No. 1622.01 Temporary Slope Drain with Earthen Berm ..... 
- Std. No. 1630.01 Riser Basin ..... 
- Std. No. 1630.02 Silt Basin Type B ..... 
- Std. No. 1633.01 Temporary Rock Silt Check Type-A ..... 
- Std. No. 1633.02 Temporary Rock Silt Check Type-B ..... 
- Std. No. 1634.01 Temporary Rock Sediment Dam Type-A ..... 
- Std. No. 1634.02 Temporary Rock Sediment Dam Type-B ..... 
- Std. No. 1635.02 Rock Pipe Inlet Sediment Trap Type-B ..... 
- Std. No. 1635.02 Rock Pipe Inlet Sediment Trap Type-B ..... 
- Std. No. 1630.04 Stilling Basin ..... 
- Std. No. 1630.06 Special Stilling Basin ..... 
- Std. No. 1630.06 Special Stilling Basin ..... 
- Std. No. 1632.02 Rock Inlet Sediment Trap Type B ..... 
- Std. No. 1632.03 Rock Inlet Sediment Trap Type C ..... 
- Pipe Outlet Energy Dispartor ..... 
- Wattle ..... 
- Wattle with PAM ..... 

## VEGETATION

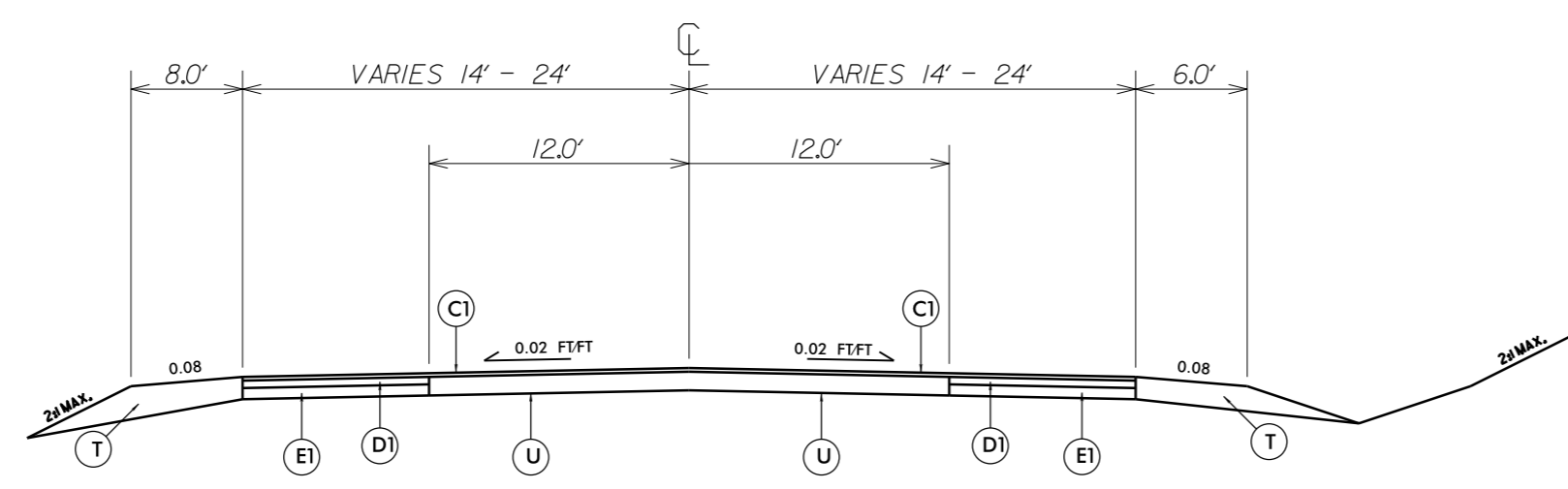
- Single Tree ..... 
- Single Shrub ..... 
- Hedge ..... 
- Woods Line ..... 
- Orchard ..... 
- Vineyard ..... 

## HYDROLOGY

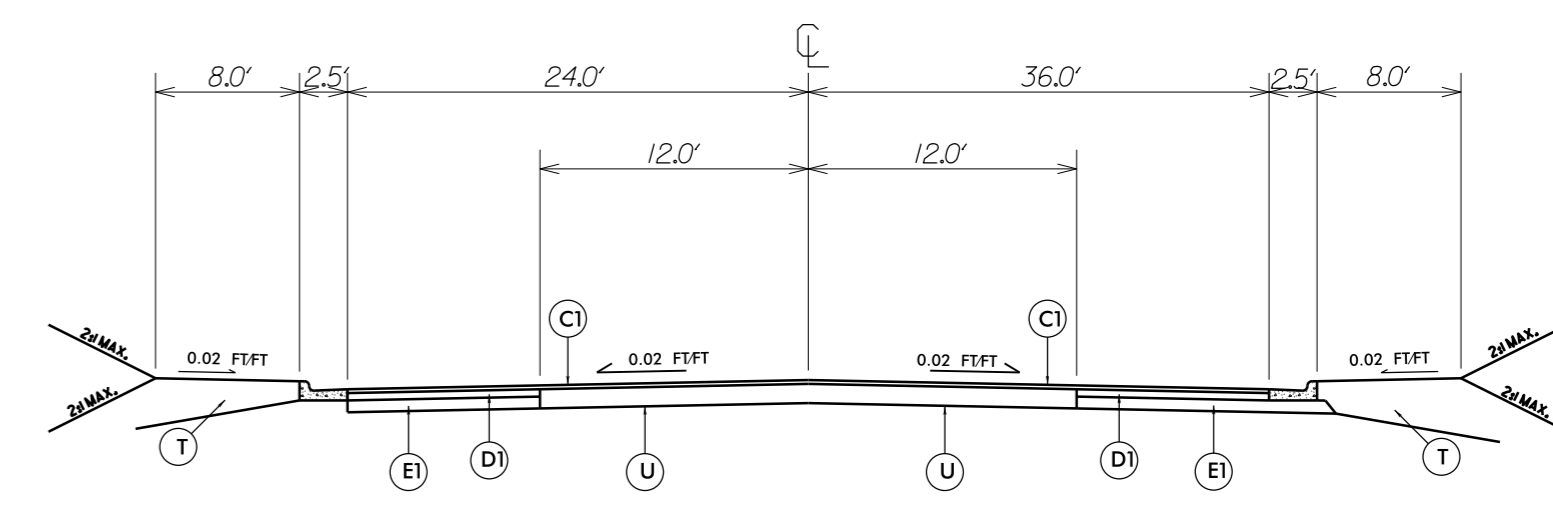
- Stream or Body of Water ..... 
- Flow Arrow ..... 
- Disappearing Stream ..... 
- Spring ..... 
- Swamp Marsh ..... 
- Shoreline ..... 
- Wet Land Boundaries ..... 
- Falls ..... 
- Rapids ..... 

PROJECT REFERENCE NO. 40325.3.56	SHEET NO. 4
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX	

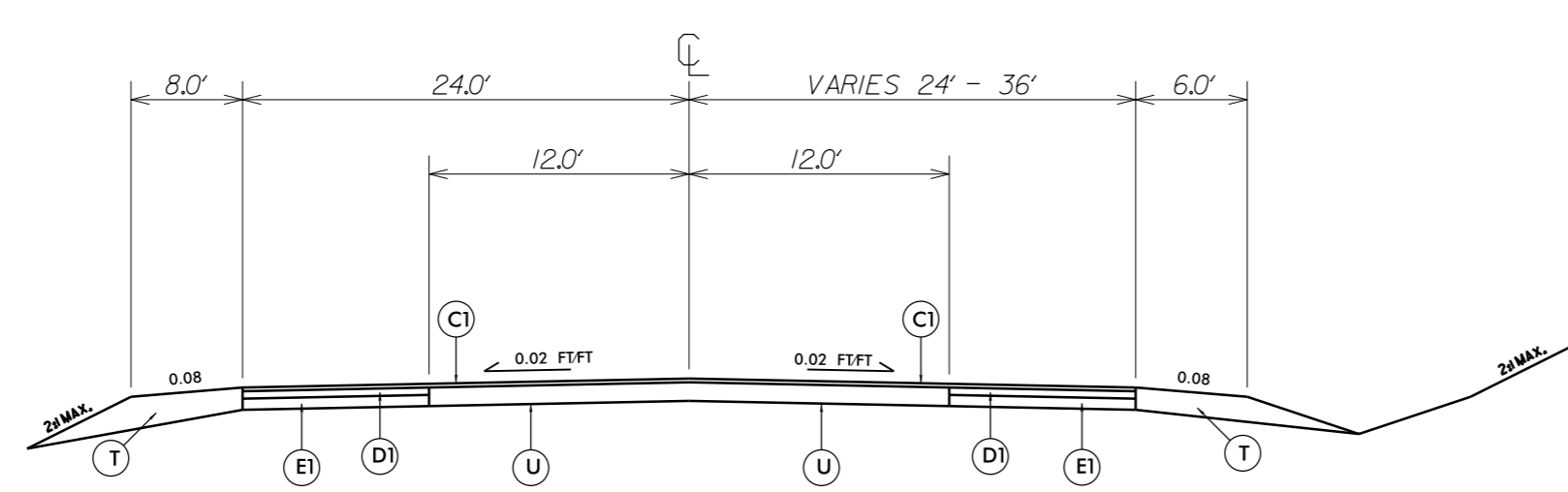
N.T.S.



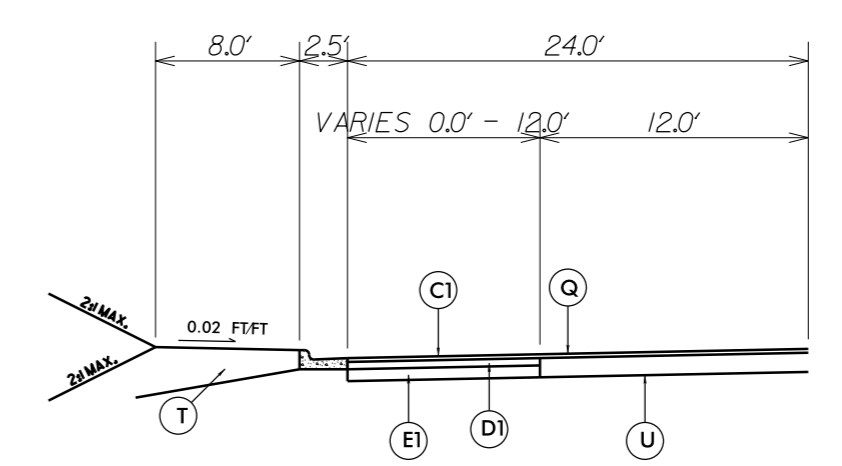
TYPICAL SECTION No.1 - JULIAN ROAD  
Sta.10+00 - Sta.14+10



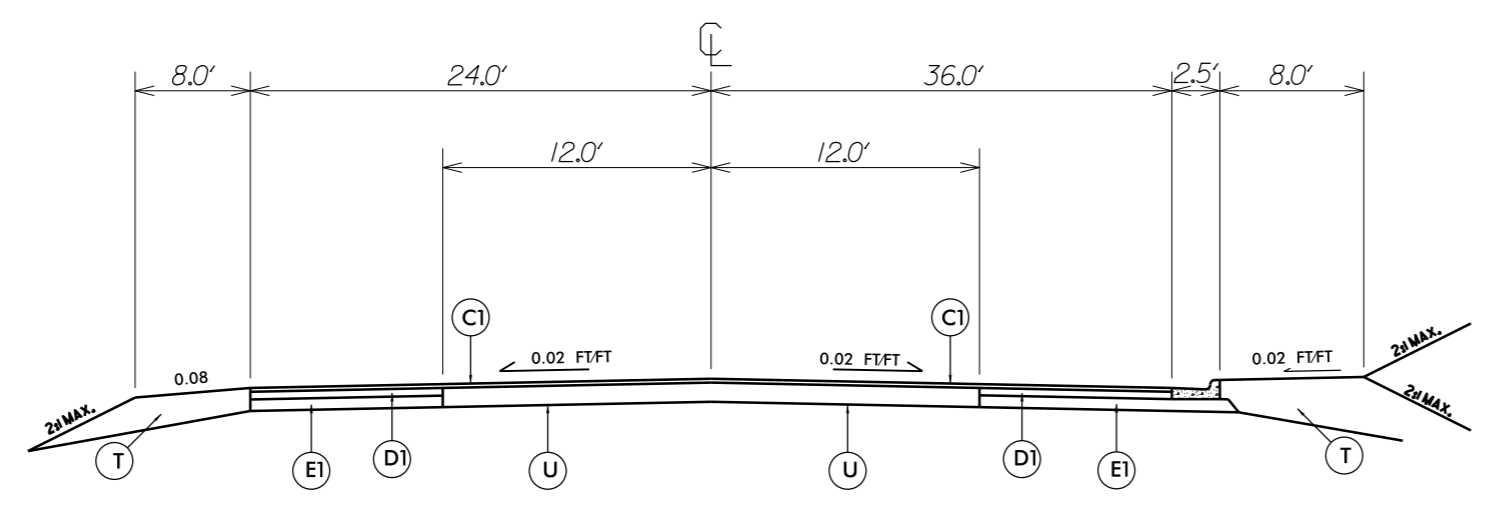
TYPICAL SECTION No.4 - JULIAN ROAD  
Sta.16+63 - Sta.17+90



TYPICAL SECTION No.2 - JULIAN ROAD  
Sta.14+10 - Sta.15+37



TYPICAL SECTION No.5 - JAKE ALEX. BLVD.  
Sta.11+00 - Sta.20+82



TYPICAL SECTION No.3 - JULIAN ROAD  
Sta.15+37 - Sta.16+63

PAVEMENT SCHEDULE

C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.08, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 5.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.08, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E1	PROP. APPROX. 7.0" ASPHALT CONCRETE BASE COURSE, TYPE 825.08, AT AN AVERAGE RATE OF 798 LBS. PER SQ. YD.
Q	WELLING 2.0" - 3.5".
R	2'-6" CONCRETE CURB AND GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

6/2/99

27 APR 2012 15:14:11 New 40325.1.56\_RdJ\_tup.dgn  
\$\$\$\$\$USER\$\$\$\$\$

PROJECT REFERENCE NO. 40325.3.56	SHEET NO. P-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
$L = 0.3952 \text{ (RT)}$ $T = 255.62'$ $R = 8,625.56'$	

-Y- PI 13+21.34  
 $\Delta = 9.06562 \text{ (RT)}$   
 $D = 7.23005'$   
 $L = 123.46'$   
 $T = 61.86'$   
 $R = 776.00'$

-Y- PC 13+82.94  
 -Y- PC 12+59.48

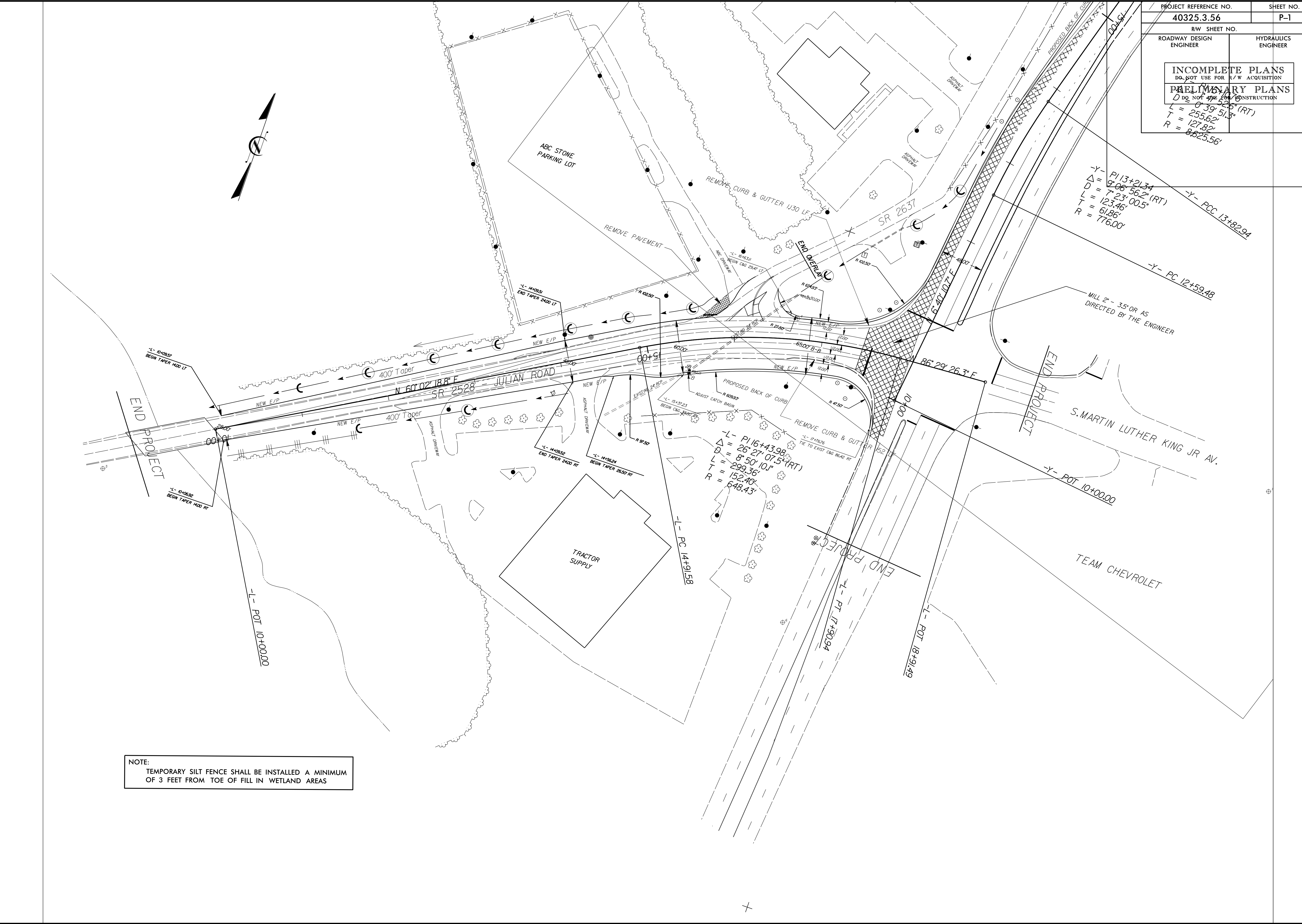
MILL 2" - 3.5" OR AS DIRECTED BY THE ENGINEER

-L- PI 16+43.98  
 $\Delta = 26.271075 \text{ (RT)}$   
 $D = 8.50101'$   
 $L = 299.36'$   
 $T = 152.40'$   
 $R = 648.43'$

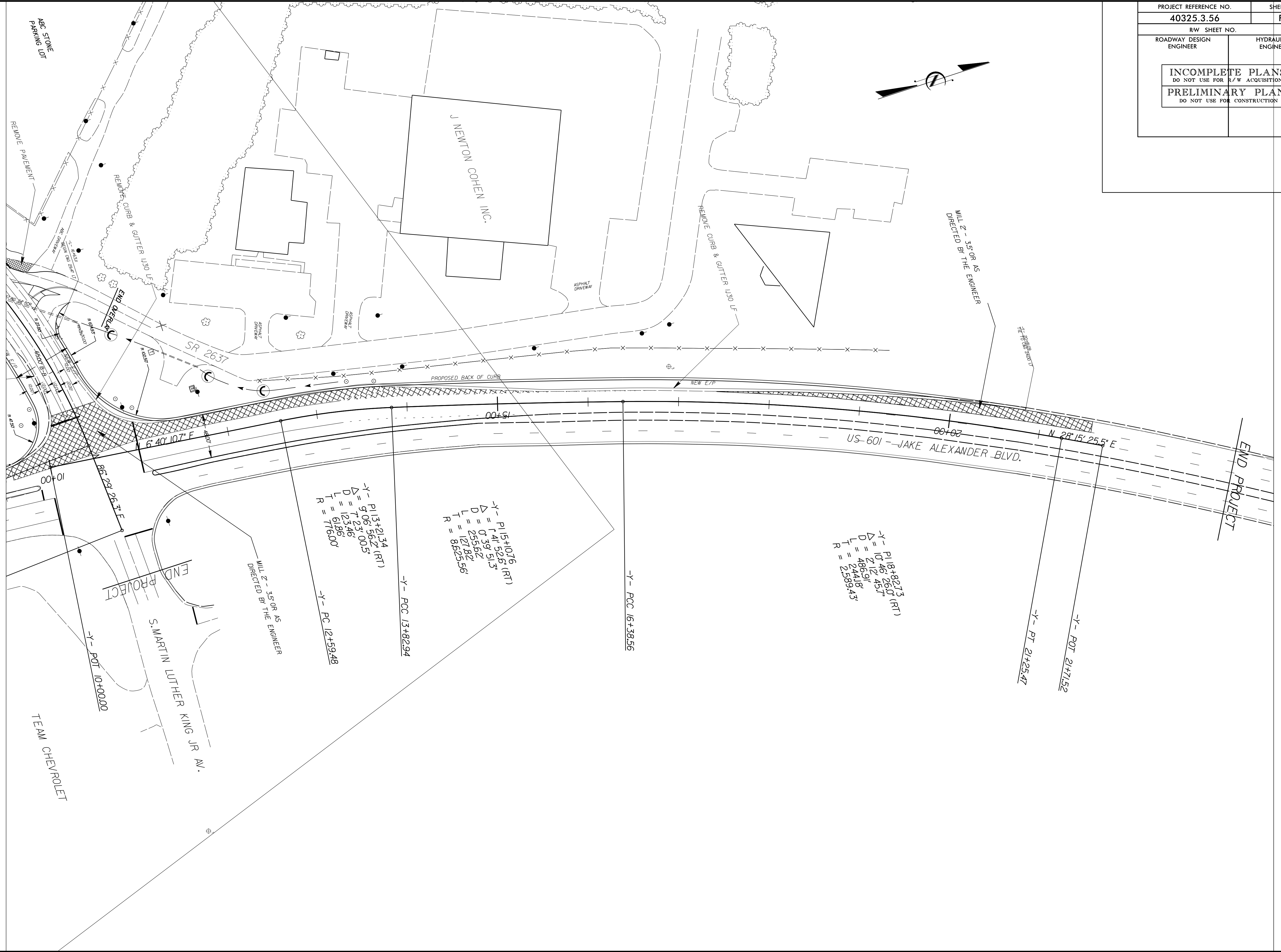
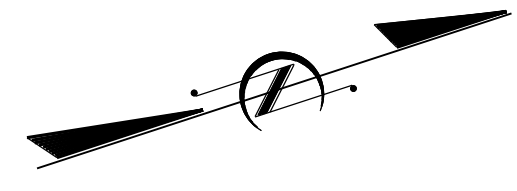
NOTE:  
 TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS

REVISIONS

8/17/99  
 27 APR 2012 15:14  
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PROJECT REFERENCE NO.	SHEET NO.
40325.3.56	P-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

8/17/99  
 27 APR 2012 15:15  
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