

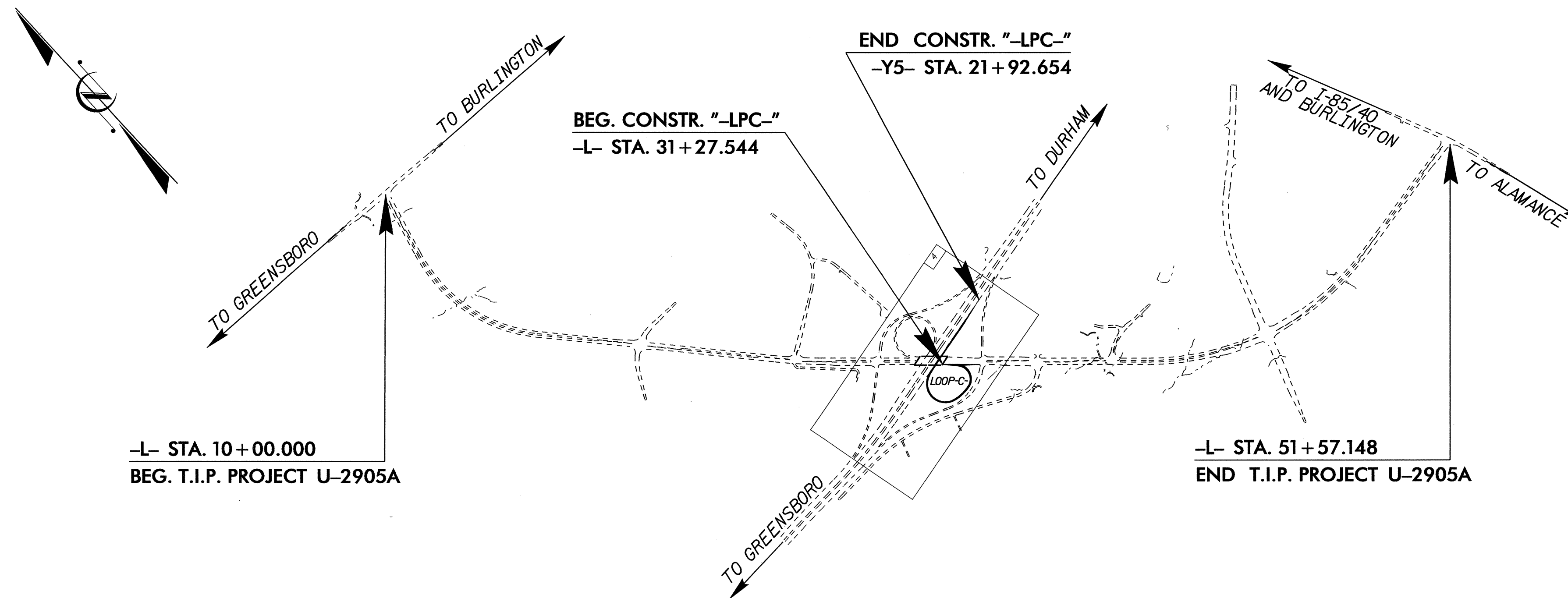
TIP PROJECT: U-2905A

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

ALAMANCE COUNTY

**LOCATION: BURLINGTON - WESTERN ALAMANCE LOOP
 FROM US 70 TO SR 1146 (KIRKPATRICK RD.)**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, CURB AND
 GUTTER (LOOP C ADDITION ONLY)**



METRIC

ALL DIMENSIONS IN THESE
 PLANS ARE IN METERS
 UNLESS OTHERWISE SHOWN

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2905A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Streambank Reforestation	
1630.05	Temporary Silt Ditch	
1605.01	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
1633.02	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	

**THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.**

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2002 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway metric standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January, 2002 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

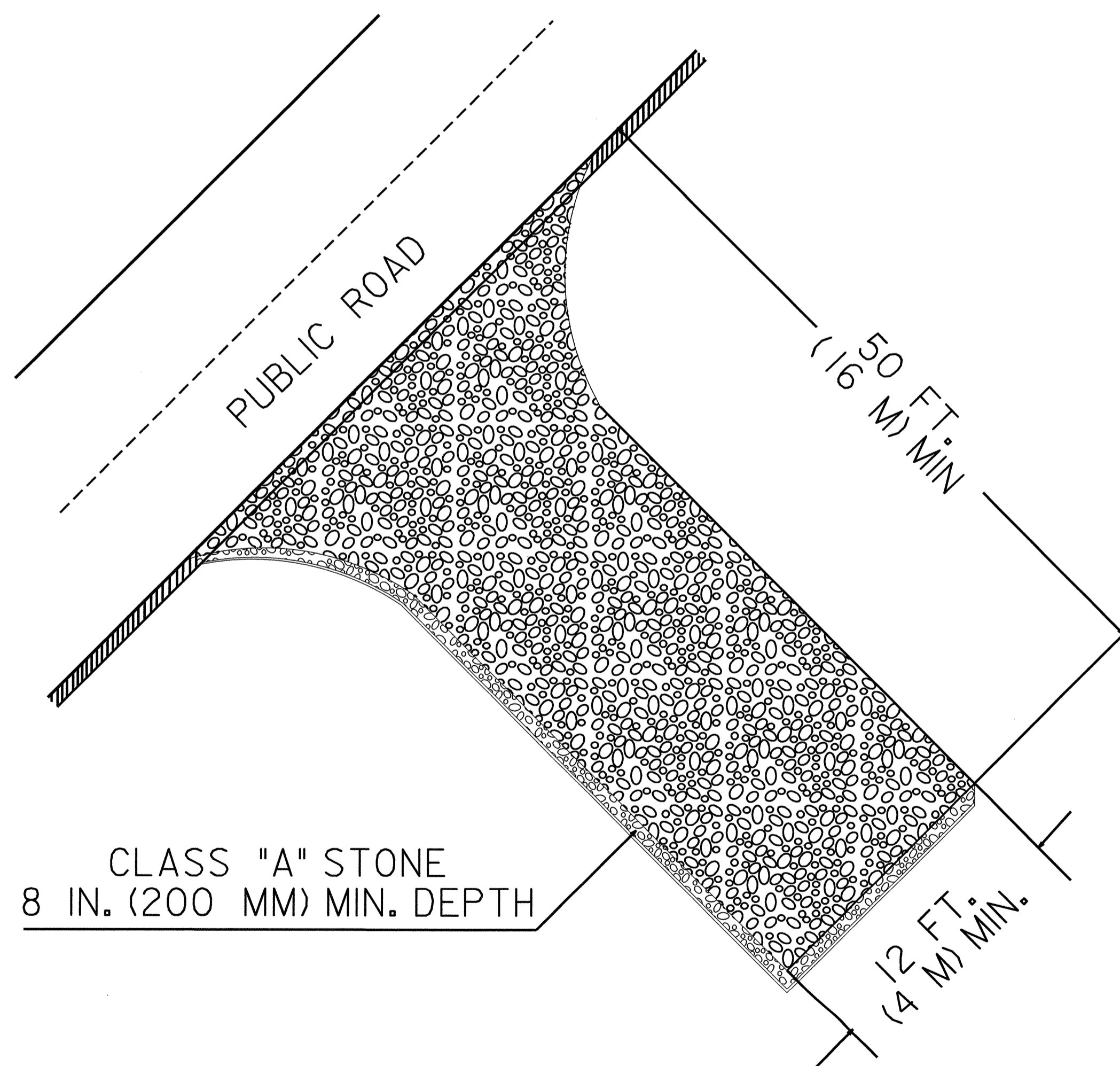
1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1630.02 Silt Basin Type B	1632.02 Rock Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1632.03 Rock Inlet Sediment Trap Type C
	1633.01 Temporary Rock Silt Check Type A
	1633.02 Temporary Rock Silt Check Type B
	1634.02 Temporary Rock Sediment Dam Type B
	1635.02 Rock Pipe Inlet Sediment Trap Type B

PROJ. REFERENCE NO. U-2905A	SHEET NO. EC-2	TOTAL SHEETS
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NOTES:

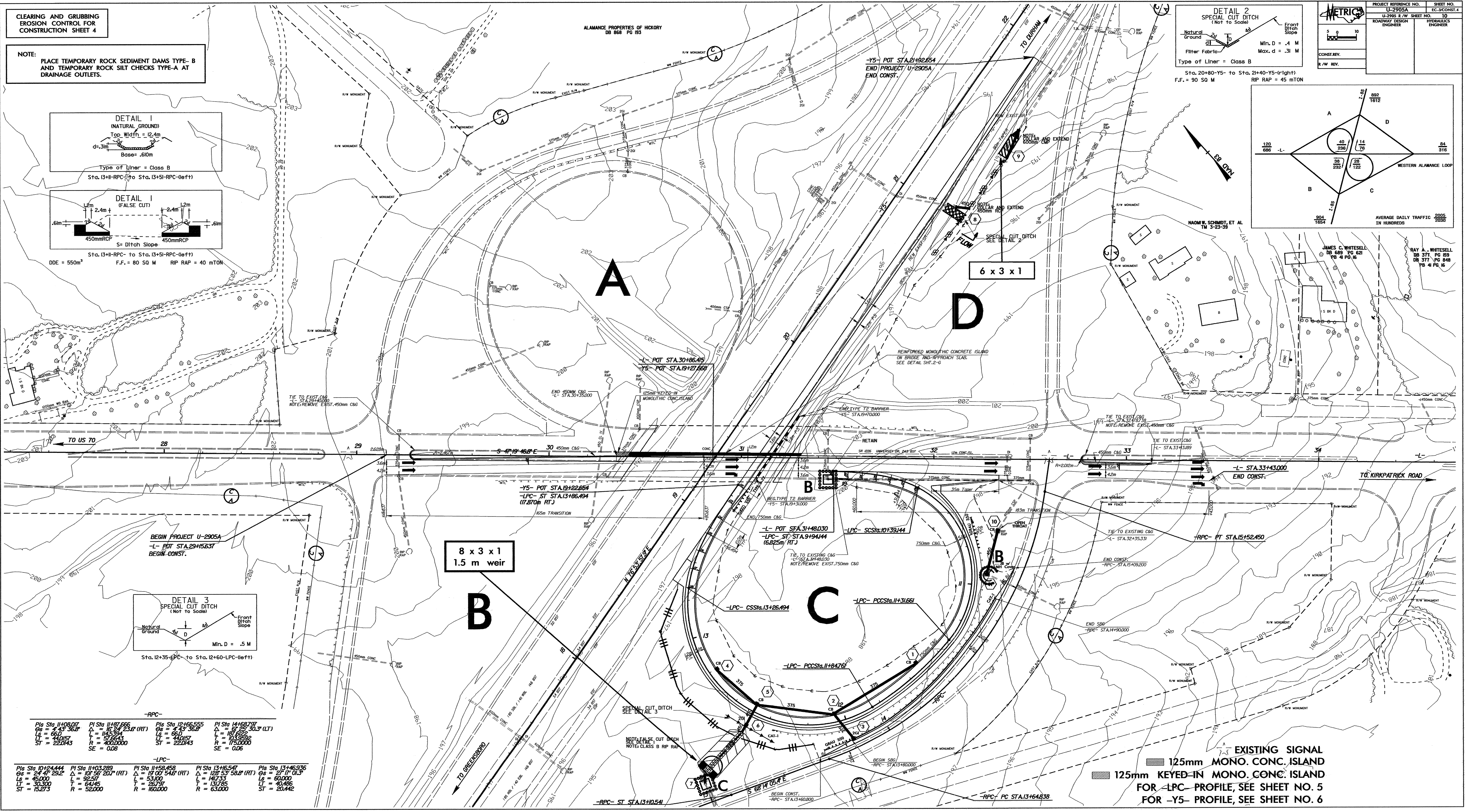
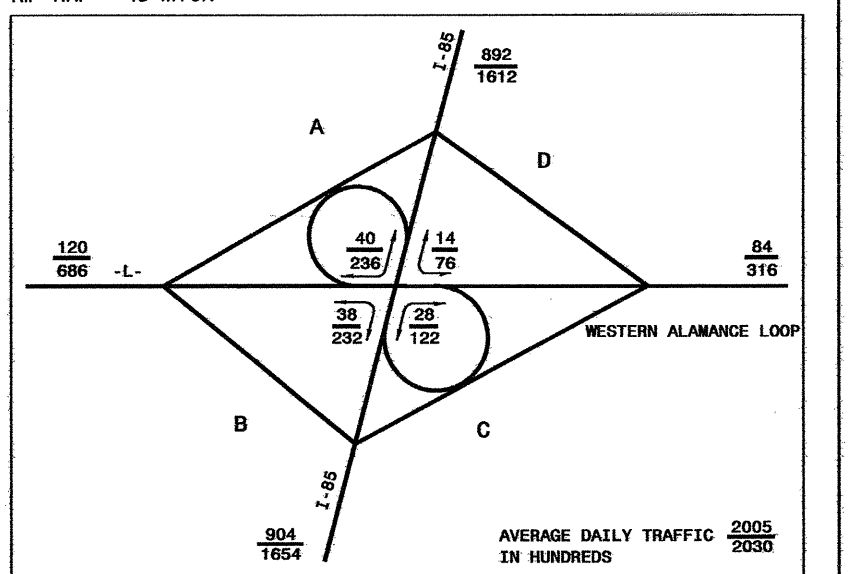
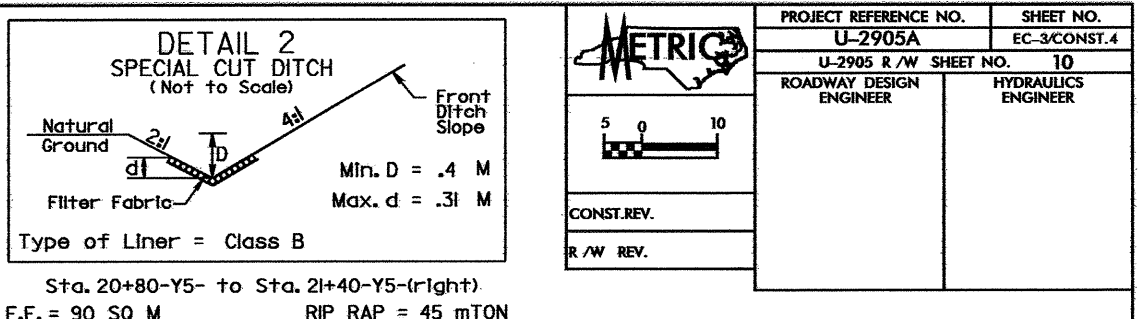
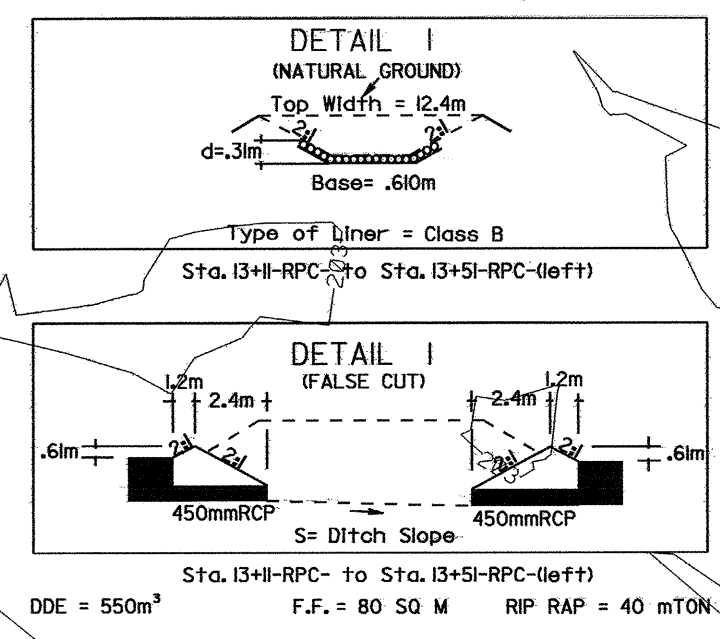
1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER



NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.



-RPC-			
PI Sta 11+08.017	PI Sta 11+87.666	PI Sta 12+56.555	PI Sta 14+58.797
Δ = 6° 43' 36.8"	Δ = 1° 55' 23.8" (RT)	Δ = 6° 43' 36.8"	Δ = 8° 35' 30.3" (LT)
L = 69.0	L = 125.54	L = 69.0	L = 103.958
LT = 41.057	LT = 57.654	LT = 41.057	LT = 103.958
ST = 22.043	ST = 410.000	ST = 22.043	SE = 0.06

-LPC-			
PI Sta 10+24.444	PI Sta 11+03.289	PI Sta 11+58.458	PI Sta 13+16.547
Δ = 24° 47' 29.2"	Δ = 10° 56' 20.7" (RT)	Δ = 17° 00' 54.8" (RT)	Δ = 128° 53' 58.8" (RT)
L = 45.000	L = 92.577	L = 53.000	L = 147.53
LT = 30.300	LT = 64.45	LT = 26.797	LT = 131.785
ST = 15.273	R = 52.000	R = 160.000	ST = 20.442

EXISTING SIGNAL
 125mm MONO. CONC. ISLAND
 125mm KEYS-IN MONO. CONC. ISLAND FOR -LPC- PROFILE, SEE SHEET NO. 5
 FOR -Y5- PROFILE, SEE SHEET NO. 6

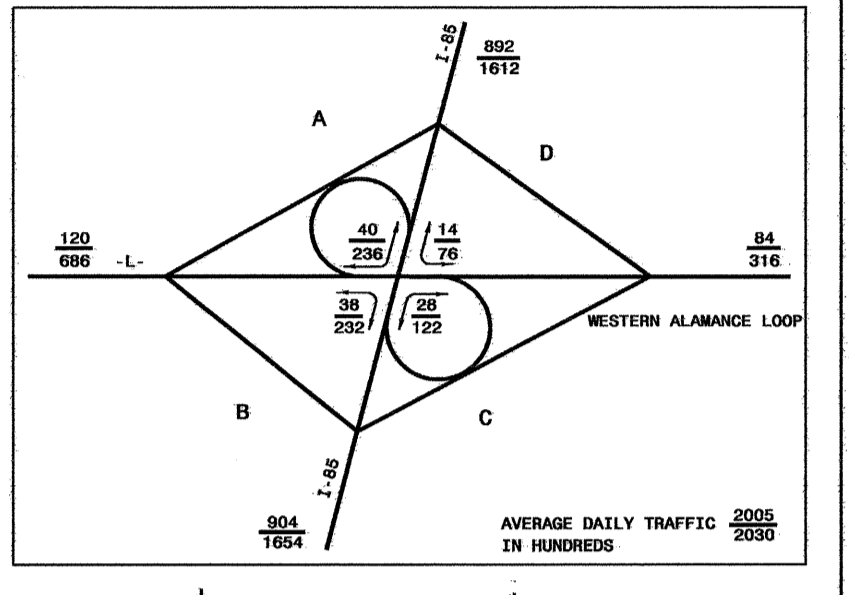
**DETAIL 2
SPECIAL CUT DITCH**
(Not to Scale)

Natural Ground
Front Slope
Min. D = .4 M
Max. d = .31 M
Filter Fabric
Type of Liner = Class B

Sta. 20+80+Y5- to Sta. 21+40+Y5-(right)
F.F. = 90 SQ M R.P. RAP = 45 mTON

PROJECT REFERENCE NO.	SHEET NO.
U-2905A	EC-4CONST.4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CONSTRY: _____
R/W REV: _____



**DETAIL 1
(NATURAL GROUND)**
Top Width = 12.4m
Base = .610m
Type of Liner = Class B
Sta. I3+H-RPC- to Sta. I3+H-RPC-(left)

**DETAIL 1
(FALSE CUT)**
450mmRCP
S= Ditch Slope
450mmRCP
Sta. I3+H-RPC- to Sta. I3+H-RPC-(left)

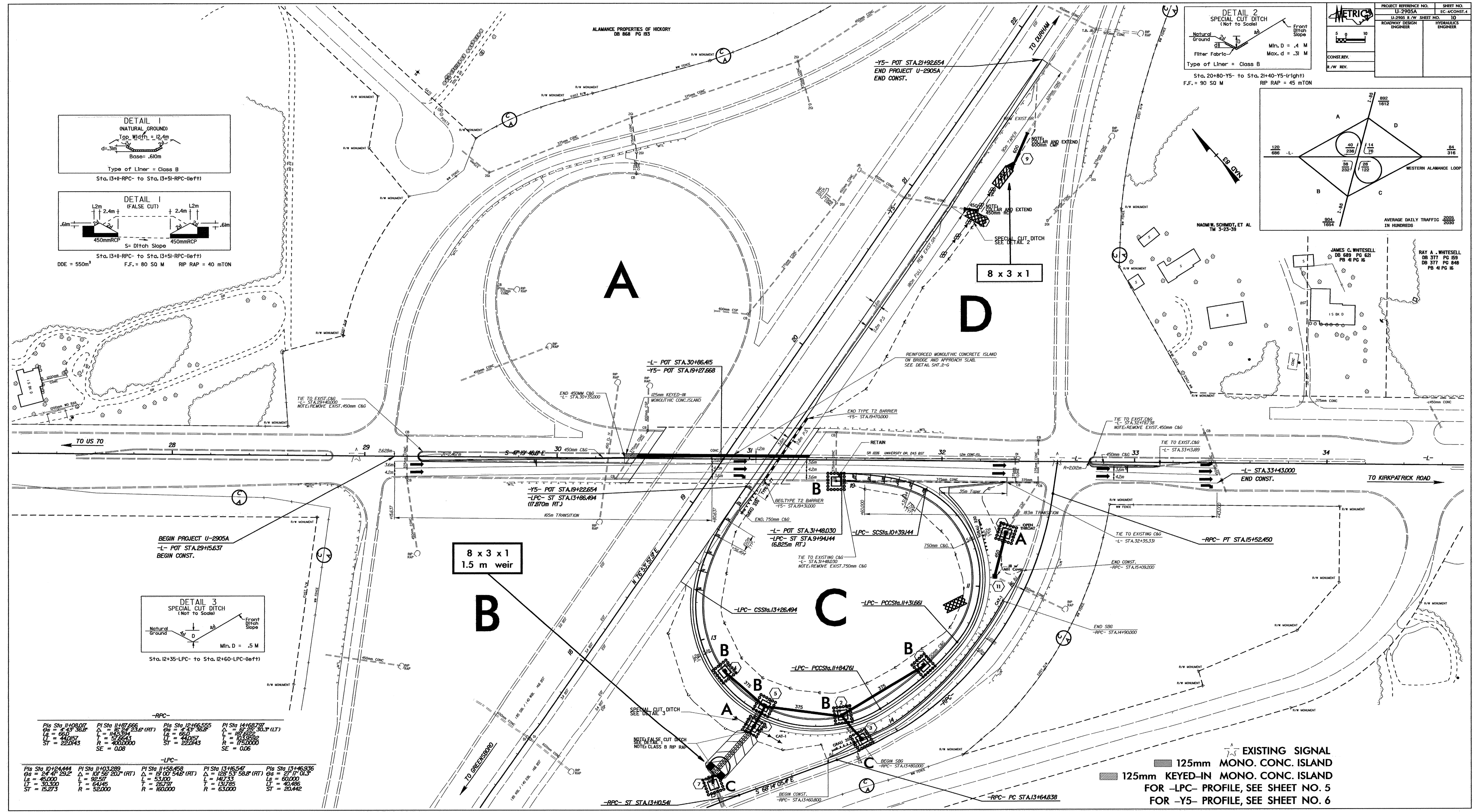
DDE = 550m³ F.F. = 80 SQ M R.P. RAP = 40 mTON

**DETAIL 3
SPECIAL CUT DITCH**
(Not to Scale)

Natural Ground
Front Slope
Min. D = .5 M

Sta. I2+35-LPC- to Sta. I2+60-LPC-(left)

-RPC-				
PIs Sta. I1+04.017	PI Sta. I1+87.666	PI Sta. I2+66.555	PI Sta. I4+68.797	
Es = 65.1	Es = 65.1	Es = 65.1	Es = 65.1	
Lt = 40.057	Lt = 57.643	Lt = 40.057	Lt = 40.966	
St = 22.043	St = 22.043	St = 22.043	St = 22.043	
SE = 0.06	SE = 0.06	SE = 0.06	SE = 0.06	
-LPC-				
PIs Sta. I0+44.444	PI Sta. I1+03.289	PI Sta. I1+58.458	PI Sta. I3+16.547	PIs Sta. I3+46.936
Es = 65.1	Es = 65.1	Es = 65.1	Es = 65.1	Es = 65.1
Lt = 40.057	Lt = 82.517	Lt = 53.100	Lt = 46.733	Lt = 60.000
St = 30.300	St = 64.445	St = 26.797	St = 131.785	St = 40.486
SE = 15.273	SE = 52.000	SE = 16.000	SE = 63.000	SE = 20.442



EXISTING SIGNAL

125mm MONO. CONC. ISLAND

125mm KEYED-IN MONO. CONC. ISLAND

FOR -LPC- PROFILE, SEE SHEET NO. 5

FOR -Y5- PROFILE, SEE SHEET NO. 6