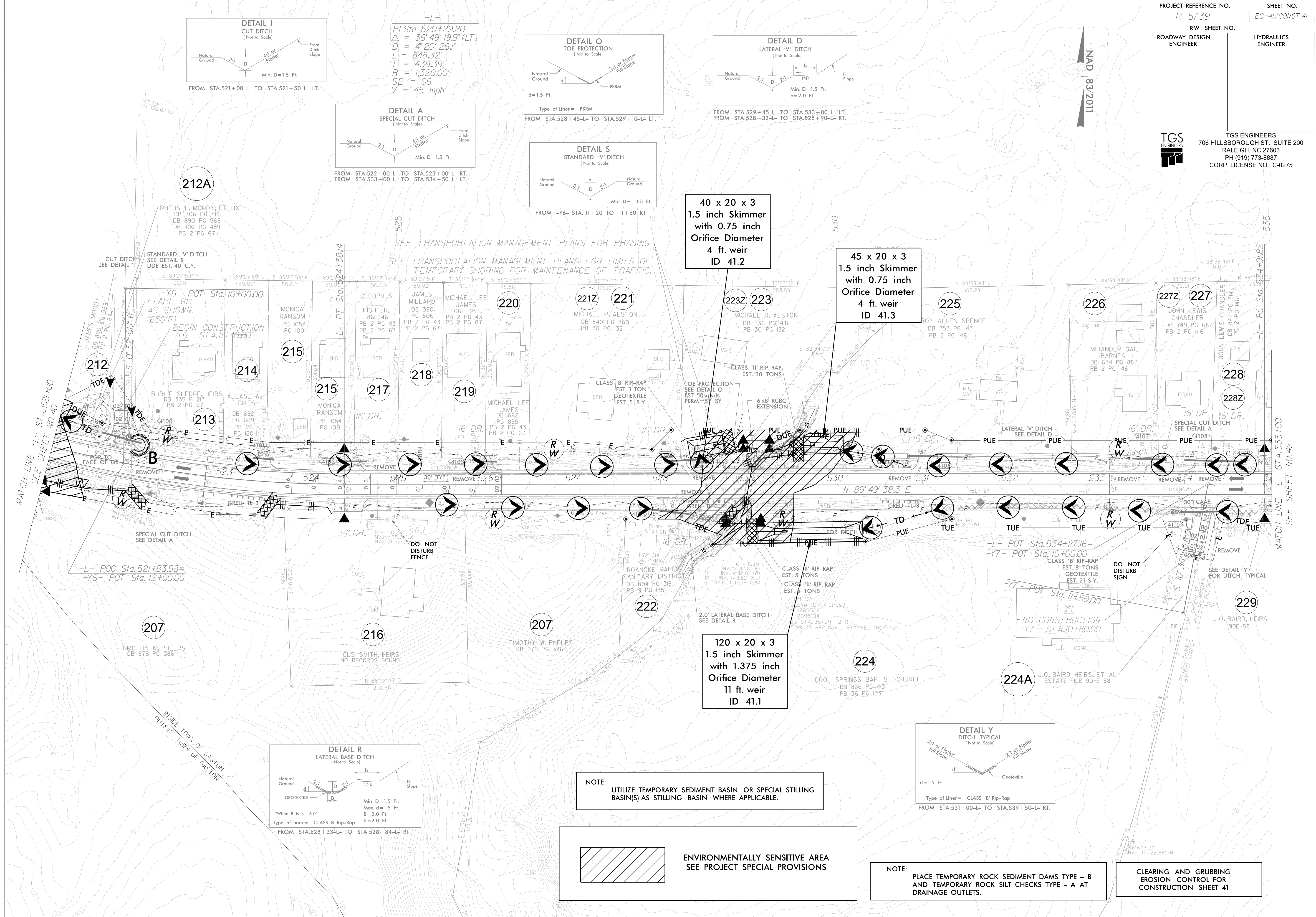


PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-41/CONST.41	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS	
706 HILLSBOROUGH ST. SUITE 200		706 HILLSBOROUGH ST. SUITE 200	
RALEIGH, NC 27603		RALEIGH, NC 27603	
PH (919) 773-8887		PH (919) 773-8887	
CORP. LICENSE NO.:		C-0275	



DETAIL I
CUT DITCH
(Not to Scale)

Natural Ground 2:1 D 4:1 or Flatter Front Ditch Slope

Min. D=1.5 Ft.

FROM STA.521+00-L- TO STA.521+50-L- LT.

PI Sta 520+29.20
 $\Delta = 36^{\circ} 49' 19.9''$ (LT)
D = 4' 20' 26.1"
L = 848.32'
T = 439.39'
R = 1,320.00'
SE = 06
V = 45 mph

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground 2:1 D 4:1 or Flatter Front Ditch Slope

Min. D=1.5 Ft.

FROM STA.522+00-L- TO STA.523+00-L- RT.
FROM STA.533+00-L- TO STA.534+50-L- LT.

DETAIL O
TOE PROTECTION
(Not to Scale)

Natural Ground d 2:1 or Flatter Fill Slope PSRM

d=1.5 Ft.

Type of Liner = PSRM

FROM STA.528+45-L- TO STA.529+10-L- LT.

DETAIL S
STANDARD V DITCH
(Not to Scale)

Natural Ground 3:1 D 3:1 Natural Ground

Min. D = 1.5 Ft.

FROM -Y6- STA. 11+20 TO 11+60 RT

DETAIL D
LATERAL V DITCH
(Not to Scale)

Natural Ground 2:1 D 2:1 1' Ft. Fill Slope

Min. D=1.5 Ft.
b=2.0 Ft.

FROM STA.529+45-L- TO STA.533+00-L- LT.
FROM STA.528+32-L- TO STA.528+90-L- RT.

40 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 41.2

45 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 41.3

120 x 20 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
11 ft. weir
ID 41.1

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING
BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 41

DETAIL R
LATERAL BASE DITCH
(Not to Scale)

Natural Ground 2:1 D 2:1 1' Ft. Fill Slope

Min. D=1.5 Ft.
Max. d=1.5 Ft.
B=2.0 Ft.
b=2.0 Ft.

Type of Liner = CLASS B Rip-Rap

FROM STA.528+33-L- TO STA.528+84-L- RT.

DETAIL Y
DITCH TYPICAL
(Not to Scale)

2:1 or Flatter Fill Slope 2:1 or Flatter Fill Slope

d=1.5 Ft.

Type of Liner = CLASS 'B' Rip-Rap

FROM STA.531+00-L- TO STA.539+50-L- RT.